

CALIFORNIA STATE UNIVERSITY, SACRAMENTO



ACADEMIC PROGRAM NEEDS ASSESSMENT OF THE GREATER SACRAMENTO AREA OF CALIFORNIA

Fall 2022

Submitted by: Office of Institutional Research, Effectiveness, and Planning

TABLE OF CONTENTS

I. INTRODUCTION

Introduction	1
Planning for the Future at Sacramento State	1
Purpose.....	1
Study Area	1

II. MARKET ANALYSIS

A. Population Characteristics	3
i. Trends and Projections.....	3
B. Employment Characteristics	6
i. Unemployment Trends	6
ii. Employment by Major Industry Sector	7
iii. Industry and Occupational Projections.....	8
C. Income and Poverty Characteristics.....	11
D. Educational Profile.....	12
i. Educational Attainment Status.....	12
ii. High School Data	14

III. LOCAL HIGHER EDUCATION PROVIDERS

A. Postsecondary Education Providers in the Sacramento Area.....	16
B. Description of Major Postsecondary Providers	16
C. Postsecondary Enrollment Data.....	19
D. Degrees Awarded by Local Education Providers.....	32
E. Programs offered at Sacramento State.....	50

IV. PROGRAM AREAS AT SACRAMENTO STATE AND LOCAL DEMAND IN THE GREATER SACRAMENTO AREA

A. Occupational Demand by Preferred Education.....	52
B. Crosswalk of Program Areas and Associated Demand for Occupations	61

V. CONCLUSIONS

A. Market Situation.....	71
B. Program Areas and Local Demand	75

ACADEMIC PROGRAM NEEDS ASSESSMENT OF THE GREATER SACRAMENTO AREA

I. Introduction

Founded in 1947 as Sacramento State College, California State University, Sacramento (Sacramento State) serves the educational needs of a rapidly growing, diverse population. The University has a paramount role in advancing the economic interests of the region and throughout the state. Within the seven different academic colleges, the University offers baccalaureate, master's and doctoral degrees with a high level of rigor that prepares students to become leaders in our communities. The economic impact of Sacramento State is more than \$900 million yearly to the Sacramento region.

According to the California Department of Finance, this metro area is expected to be one of the fastest growing areas in the country. The Greater Sacramento Area's economic outlook is positive with the recent addition of the Golden One Center, Downtown Commons (DOCO), Wide Open Walls Festival, and the continued development of infrastructure throughout the city.

Planning for the Future at Sacramento State

Sacramento State is a fast-growing campus setting the blueprint for other universities in the CSU system. With the recent completion of the 29,000 square foot expansion of The WELL, Sacramento State continues to invest in the health and well-being of students. Most recently, Sacramento State completed the Hornet Commons, a new student housing project that houses 1,100 students. Sacramento State continues to make strides to meet the growing housing needs. Additionally, the campus recently opened its new "Hornet Beach", a 26,000 square foot volleyball facility that features four NCAA regulation beach volleyball courts with seating for 250 spectators.

Purpose

The purpose of this report is to highlight important characteristics within the GSA (Greater Sacramento Area) that are useful for administrators and other stakeholders. This report examines important areas including population characteristics, employment characteristics, education characteristics, income and poverty characteristics, information on local education providers and current and future needs within education. This report can be utilized as a guide in assessing the needs of services and academic programs provided by Sacramento State to future populations.

Study Area

The GSA is the focus of the report and encompasses Sacramento County, Yolo County, Placer County, and San Joaquin County. These counties are high feeder areas that make up approximately 60% of enrolled undergraduate students during the fall 2020 semester. For this reason, data reported reflects the GSA.

For the purpose of this report, we include the following higher education institutions: Sacramento State, UC Davis, Sierra College, Los Rios Community Colleges (Sacramento City, American River, Cosumnes River, and Folsom Lake), San Joaquin Delta College and Woodland Community College.

II. Market Analysis

This section presents population, employment, income and poverty characteristics of the Greater Sacramento Area. Additionally, it provides data concerning enrollment, high school students, and postsecondary education. This data highlights the important economic factors related to the area.

Map 1 shows the location of the Greater Sacramento Area in relation to the state of California. Placer County stretches out to the Nevada border as the rest of the counties remain centrally located in California. The total land area of the GSA is approximately 5,540 square miles.

There are two metropolitan statistical areas (MSAs) in the GSA: Sacramento-Roseville-Arden-Arcade MSA which is comprised of El Dorado, Placer, Sacramento, and Yolo Counties, and Stockton-Lodi MSA which is comprised of San Joaquin County. (<http://www.labormarketinfo.edd.ca.gov/definitions/metropolitan-areas.html>)

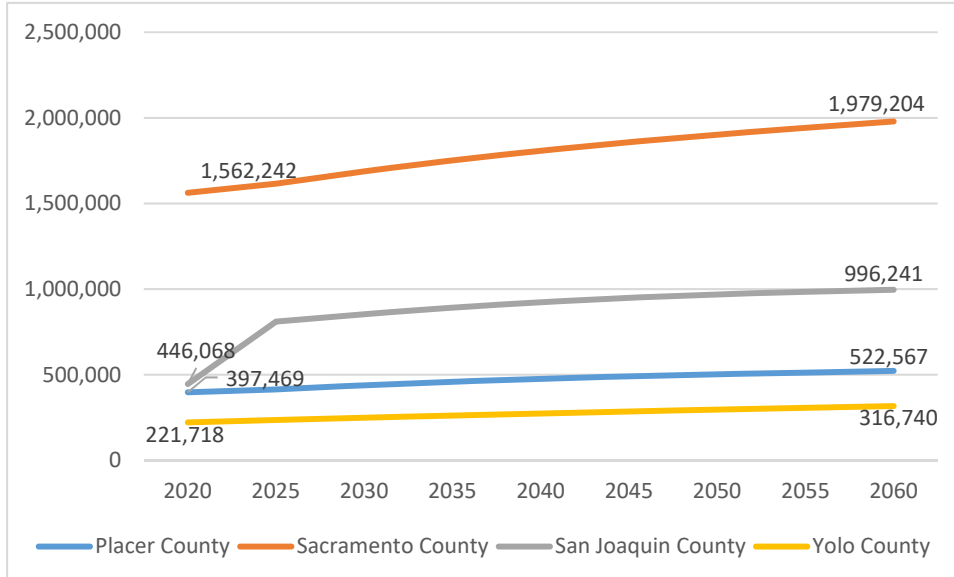
Map 1: The Greater Sacramento Area



A. Population Characteristics
i. Trends and Projections

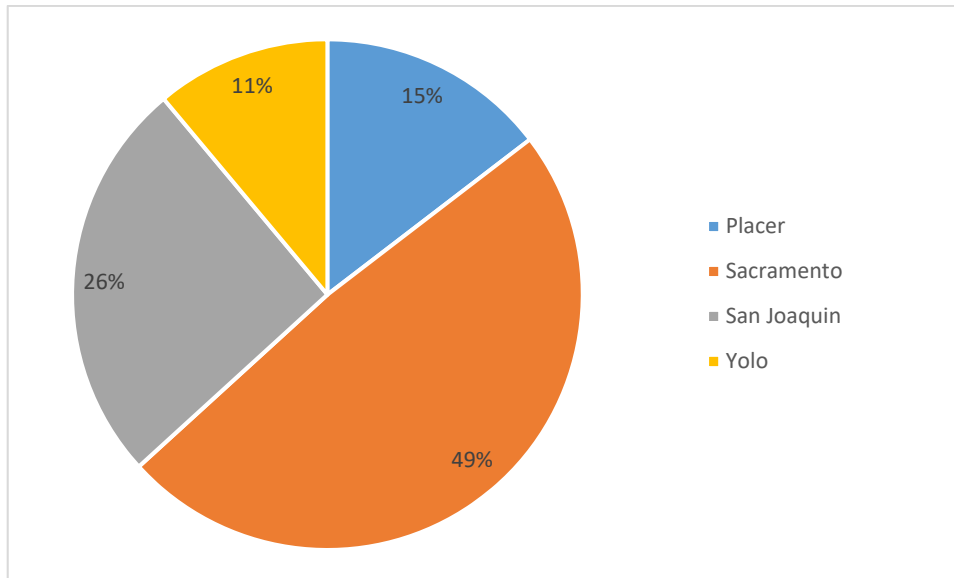
According to charts 1 and 2 below, the population of Sacramento County is growing at a fast pace. Projections from 2020 to 2060 reveal that Sacramento County will reach 1.97 million by 2060. San Joaquin County is projected to increase to 996,241 by 2060. Placer County is expected to grow to 522,567 and Yolo County is expected to grow to 316,740 by 2060.

Chart 1: Future Population Projections from 2020 to 2060 by County



Source: Projections Prepared by Demographic Research Unit, California Department of Finance, July 2021

Chart 2: Future Projected Share of Population Growth from 2020 to 2060 by County

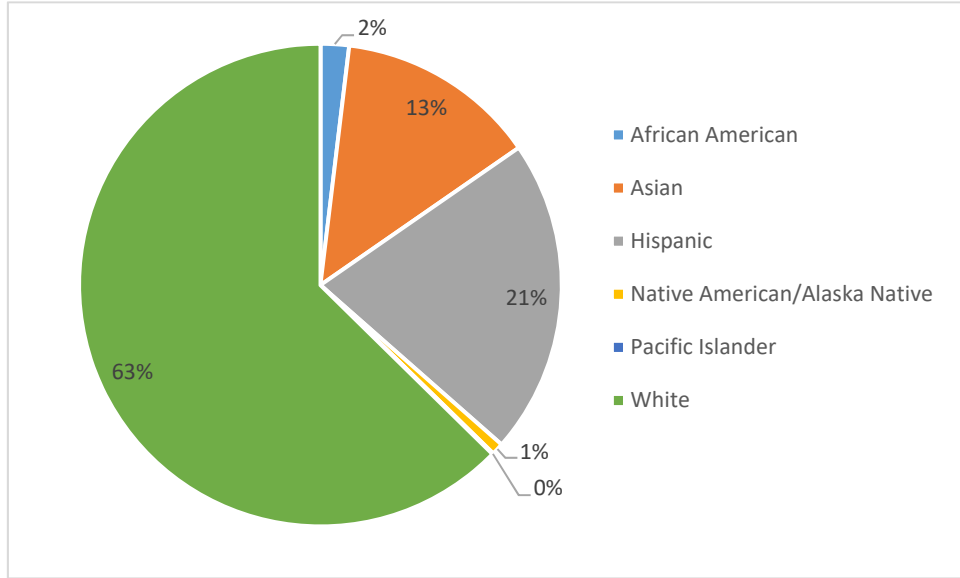


Source: Projections Prepared by Demographic Research Unit, California Department of Finance, July 2021

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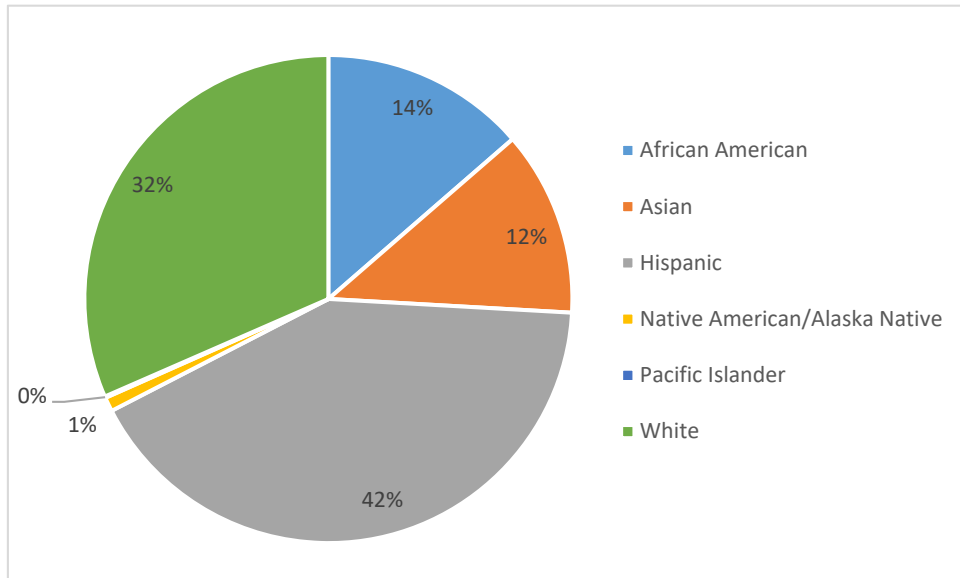
According to charts 3 through 6, we see a population breakdown of demographics in the Greater Sacramento Area by Race/Ethnicity. Projection highlights the percentage of people in each designated county. Future projections include an increase in the Hispanic population, which will reach 513,152 by 2060 in Sacramento County.

Chart 3: Future Projected Share of Population Growth for Placer County from 2020 to 2060 by Race/Ethnicity



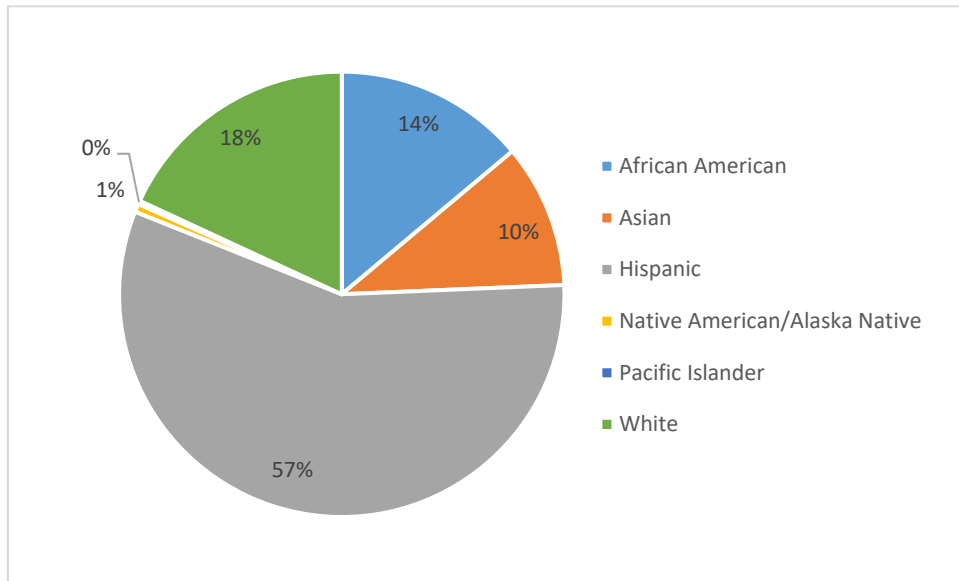
Source: Projections Prepared by Demographic Research Unit, California Department of Finance, July 2021

Chart 4: Future Projected Share of Population Growth for Sacramento County from 2020 to 2060 by Race/Ethnicity



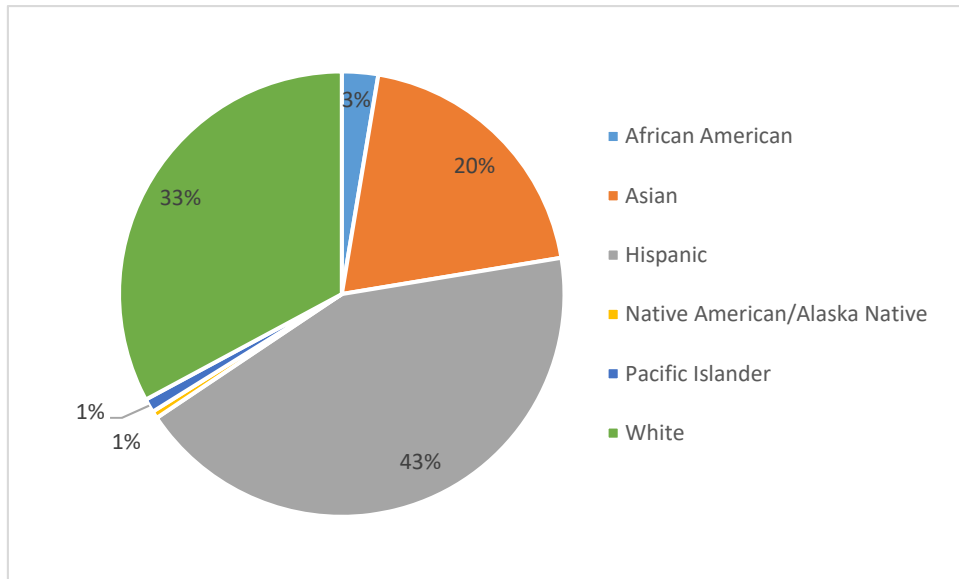
Source: Projections Prepared by Demographic Research Unit, California Department of Finance, July 2021

Chart 5: Future Projected Share of Population Growth for San Joaquin County from 2020 to 2060 by Race/Ethnicity



Source: Projections Prepared by Demographic Research Unit, California Department of Finance, July 2021

Chart 6: Future Projected Share of Population Growth for Yolo County from 2020 to 2060 by Race/Ethnicity



Source: Projections Prepared by Demographic Research Unit, California Department of Finance, July 2021

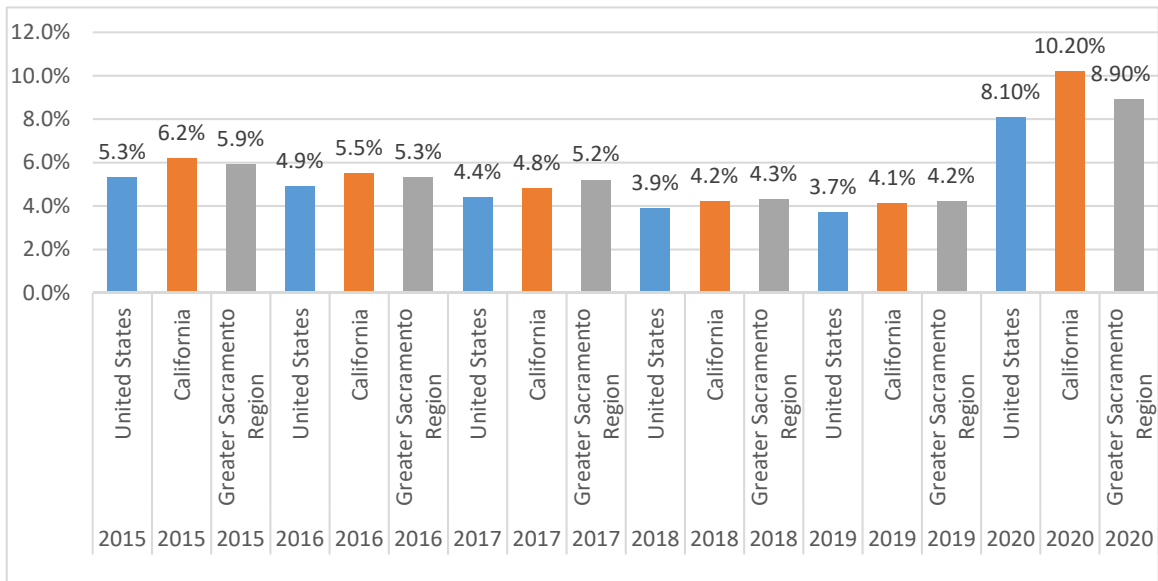
B. Employment Characteristics

i. Unemployment Trends

The unemployment rate had been persisting in a downward trend until it took a sharp turn upward in 2020. A look at unemployment rate patterns reveals higher unemployment rates in California compared to the U.S national average. The Greater Sacramento Region also has a higher unemployment rate than the U.S. National average.

Chart 7 shows a snapshot of the unemployment rates in relation to the United States, California, and the Greater Sacramento Area.

Chart 7: Unemployment Rates in the U.S., California, and Greater Sacramento Area

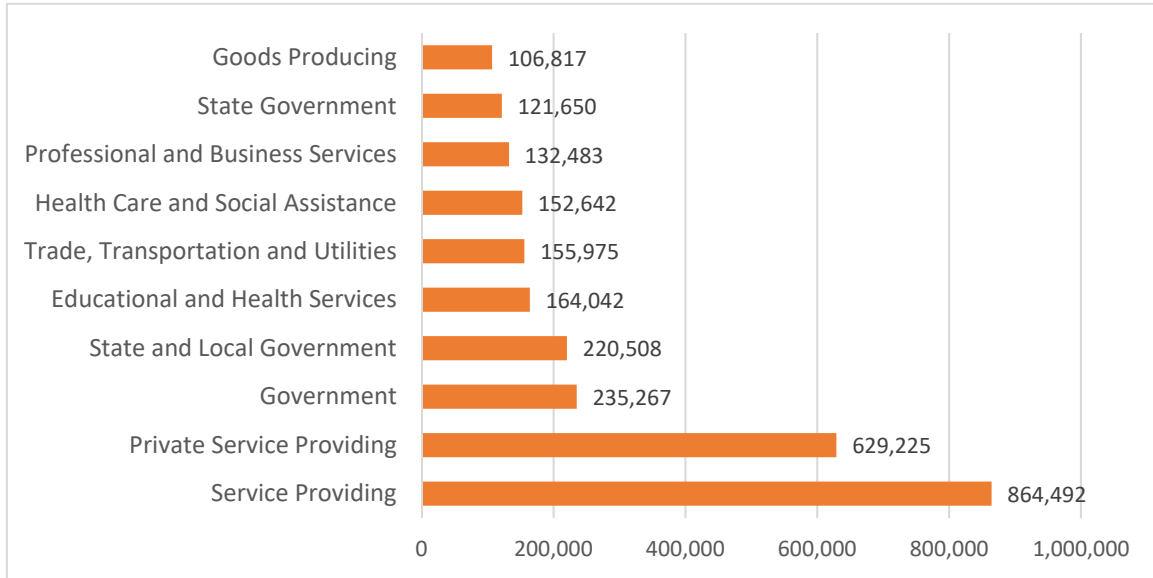


Source: Bureau of Labor Statistics

ii. Employment by Major Industry Sector in the Greater Sacramento Area

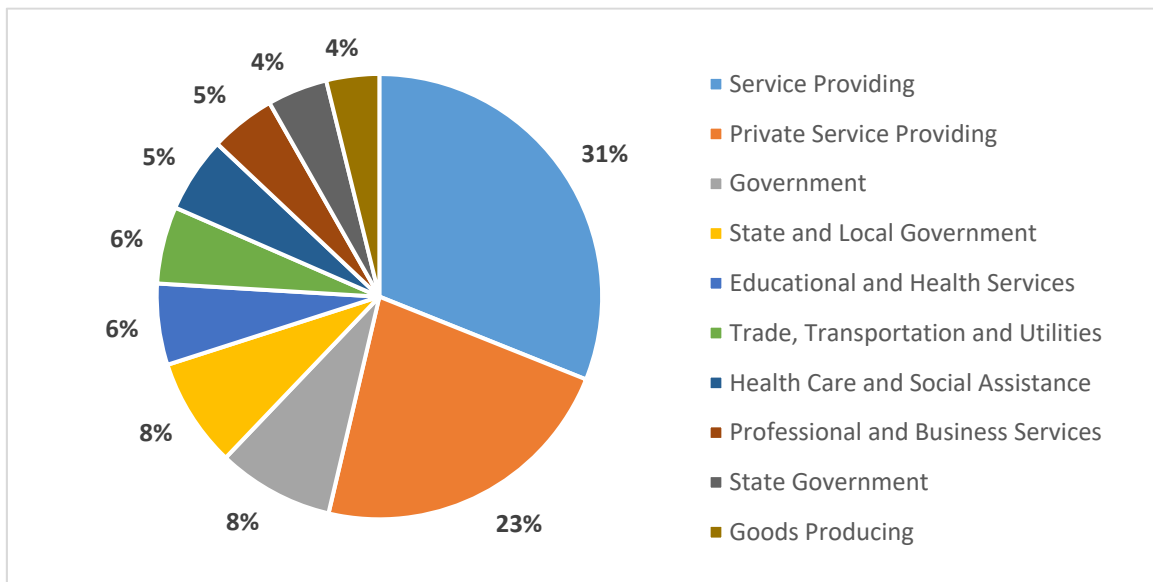
Chart 8 reveals the employment quantum by industry in the Greater Sacramento Area. The State of California Employment Development Department show the top three employment by industry to be Service Providing, Private Service Providing and Government for the Greater Sacramento Area. Chart 9 highlights the share in employment by industry in the Greater Sacramento Area showing a visual representation of the employment sector.

Chart 8: Employment by Industry in the Greater Sacramento Area, 4th Quarter 2020



Source: State of California-Employment Development Department

Chart 9: Share of Employment by Industry in the Greater Sacramento Area

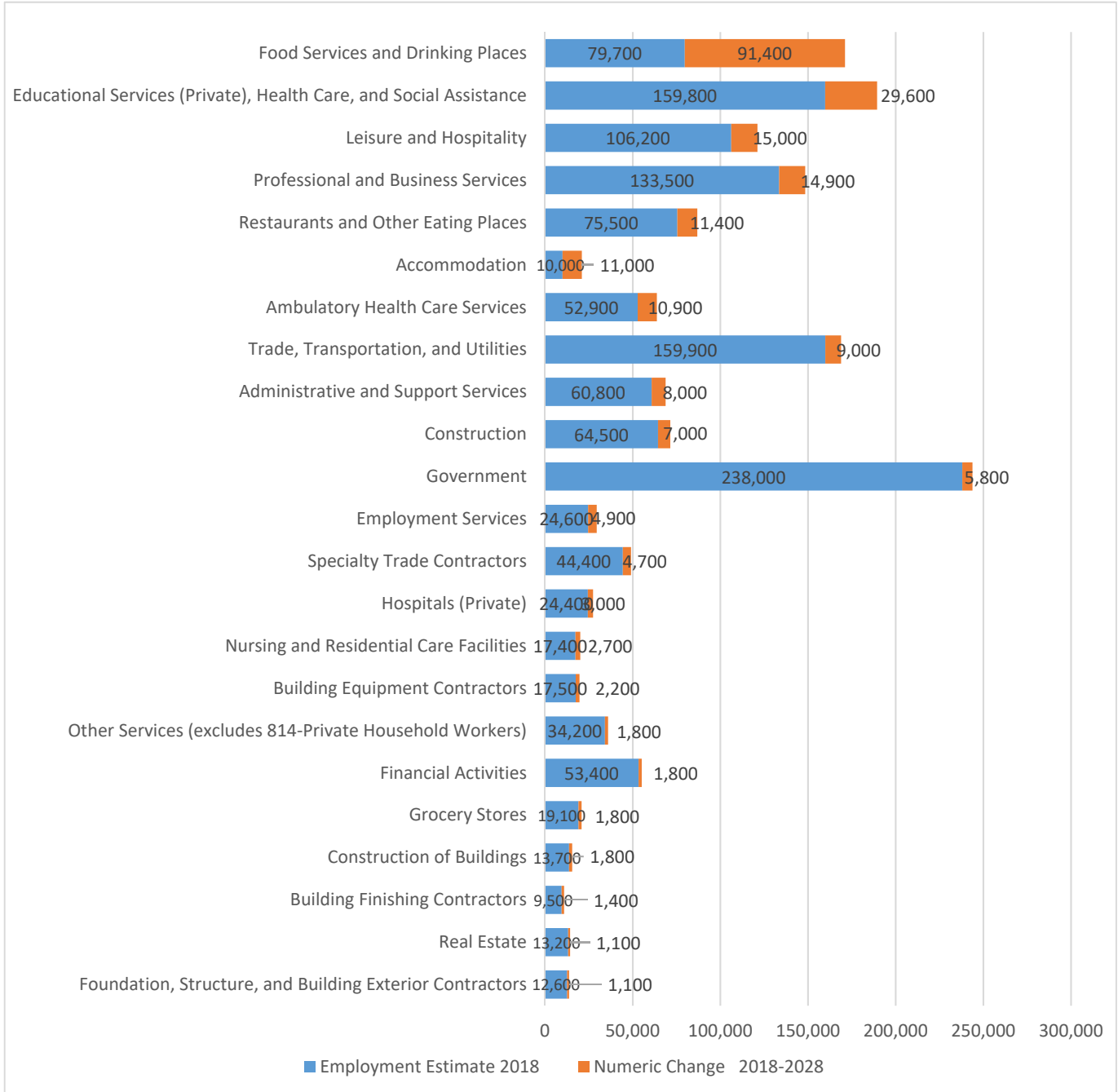


Source: State of California-Employment Development Department

iii. Industry and Occupational Projections

According to the California Employment Development Department, Food Services and Drinking Places will add the highest number of new jobs by adding 91,400 jobs by 2028. Additionally, Educational Services (Private), Health Care, and Social Assistance are the other leading industries of employment for the Greater Sacramento Area.

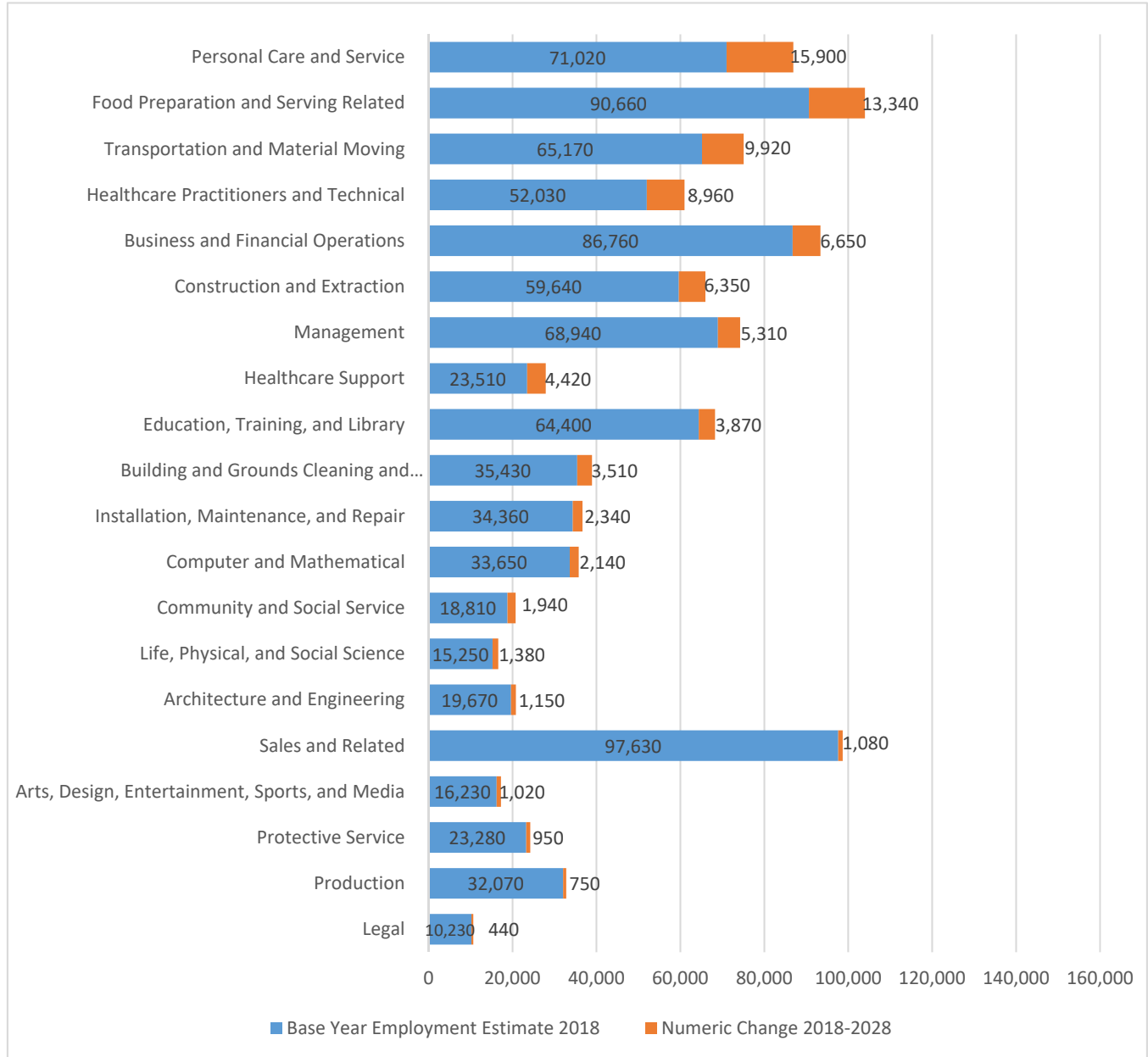
Chart 10: Projected Growth by Industry in the Greater Sacramento Area 2018-2028



Source: State of California-Employment Development Department

The top three occupational categories that will add the largest number of jobs by 2028 are Personal Care and Service, Food Preparation and Serving Related, and Transportation and Material Moving, and Healthcare Practitioners and Technical (Chart 11).

Chart 11: Projected Growth by Occupational Categories in the Greater Sacramento Area 2018-2028



Source: State of California-Employment Development Department

Table 1: 2018-2028 Fastest Growing Occupations Projected in the Greater Sacramento Area

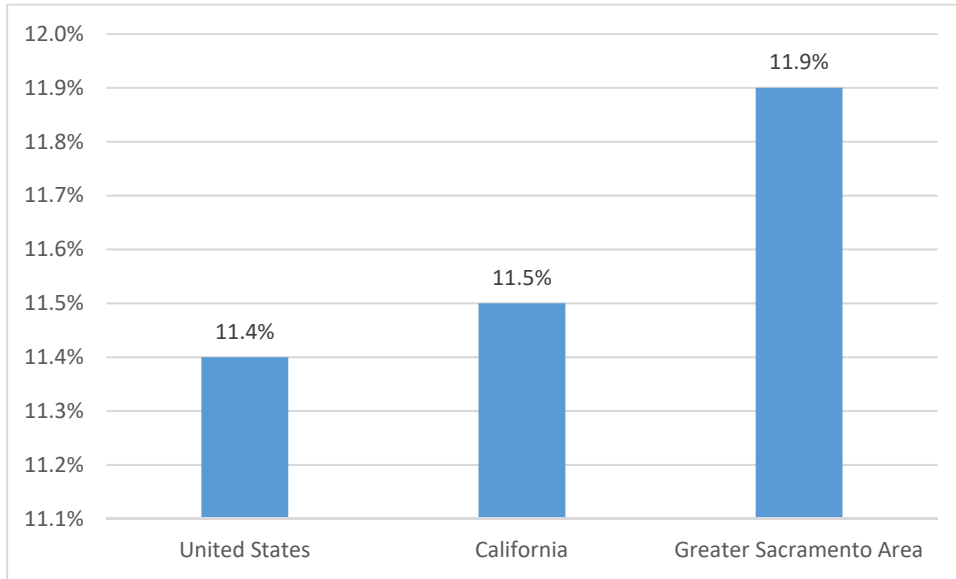
Occupational Title	Estimated Employment 2018	Projected Employment 2028	Percentage Change 2018-2028	Annual Average Percent Change
Solar Photovoltaic Installers	170	280	64.70%	6.47%
Nurse Anesthetists	120	170	41.70%	4.17%
Occupational Therapy Assistants	180	250	38.90%	3.89%
Physician Assistants	720	980	36.10%	3.61%
Nurse Practitioners	840	1,130	34.50%	3.45%
Personal Care Aides	35,860	47,390	32.20%	3.22%
Speech-Language Pathologists	780	1,030	32.10%	3.21%
First-Line Supervisors of Gaming Workers	350	460	31.40%	3.14%
Therapists, All Other	330	430	30.30%	3.03%
Diagnostic Medical Sonographers	510	660	29.40%	2.94%
Motor Vehicle Operators, All Other	340	440	29.40%	2.94%
Respiratory Therapists	960	1,240	29.20%	2.92%
Physical Therapist Assistants	490	630	28.60%	2.86%
Occupational Therapy and Physical Therapist Assistants and Aides	950	1,220	28.40%	2.84%
Cooks, Restaurant	9,090	11,630	27.90%	2.79%
Medical Assistants	6,380	8,150	27.70%	2.77%
Computer and Information Research Scientists	290	370	27.60%	2.76%
Operations Research Analysts	800	1,020	27.50%	2.75%
Nursing Instructors and Teachers, Postsecondary	110	140	27.30%	2.73%
Other Personal Care and Service Workers	48,700	61,630	26.60%	2.66%
Couriers and Messengers	460	580	26.10%	2.61%
Software Developers, Applications	4,130	5,180	25.40%	2.54%
Phlebotomists	750	940	25.30%	2.53%

Source: State of California-Employment Development Department

C. Income and Poverty Characteristics

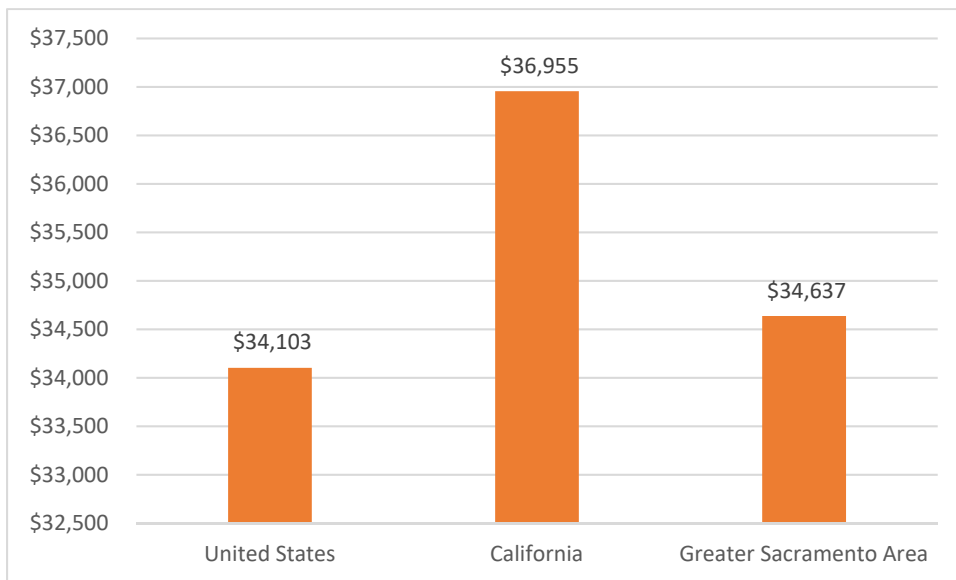
According to the U.S. Census Bureau, Chart 12 shows the Greater Sacramento Area’s percentage of population in poverty at 11.9%. This percent is slightly higher than the state of California by 0.4%. Chart 13 highlights per capita income. Income in California is slightly higher than the Greater Sacramento Area and the United States.

Chart 12: Percent of Population in Poverty – the U.S., California, and Greater Sacramento Area (2016-2020)



Source: U.S. Census Bureau 2021

Chart 13: Per Capita Income – the U.S., California and Greater Sacramento Area (2016-2020)



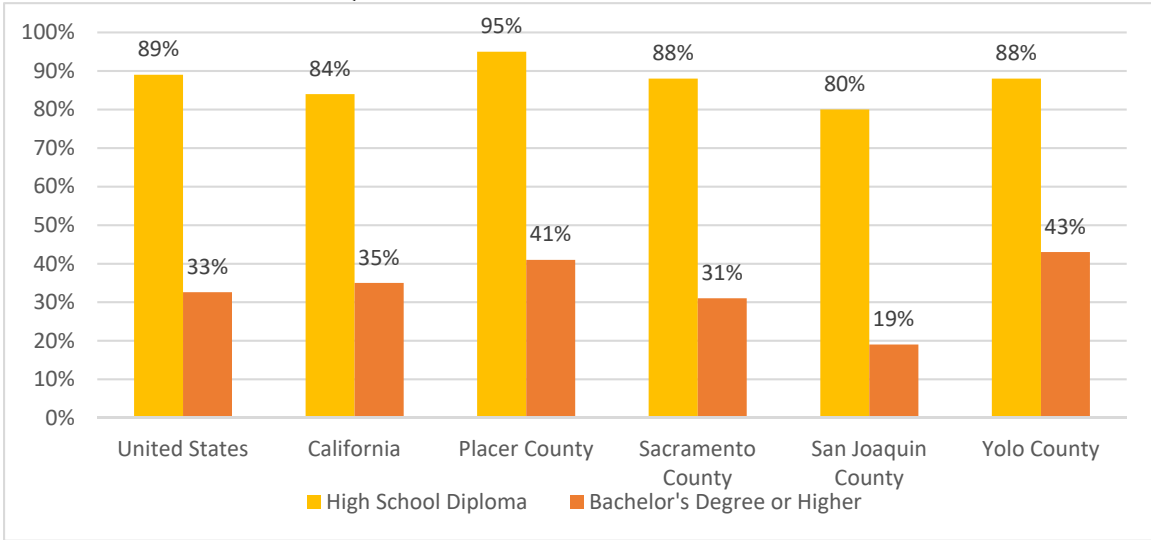
Source: U.S. Census Bureau 2021

D. Educational Profile

i. Educational Attainment Status

According to Chart 14, Placer County has the highest high school graduation rate, while Yolo County has the highest percentage of people with a Bachelor’s Degree or higher in the Greater Sacramento Area.

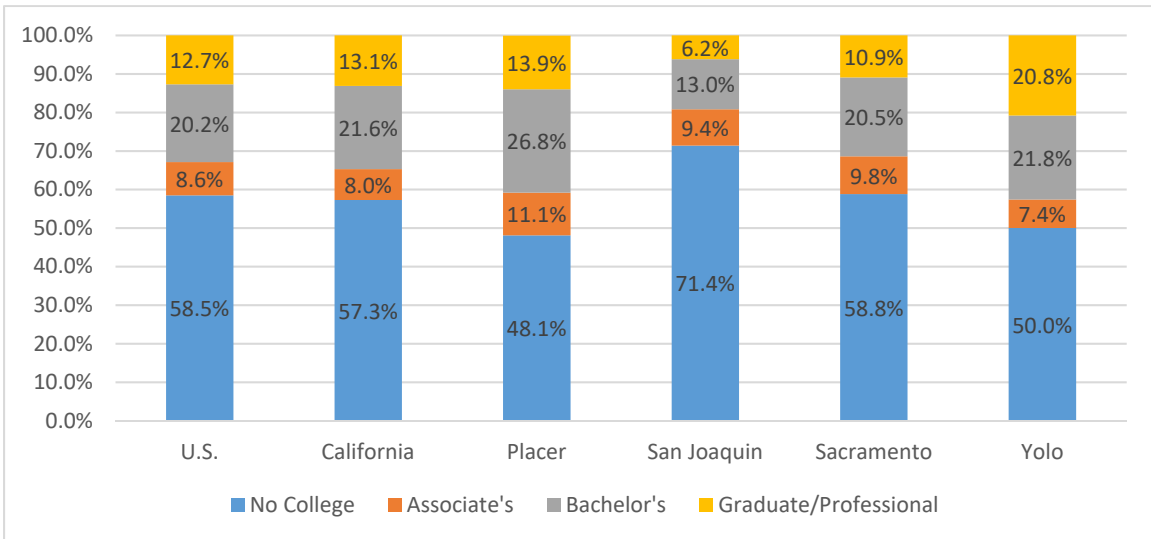
Chart 14: Percent of High School and College Graduates (Bachelor’s Degree or Higher) U.S., California and Greater Sacramento Area



Source: 2020 American Community Survey, U.S. Census Bureau

A closer examination of educational attainment is provided in Chart 15. When examining the Greater Sacramento Area, San Joaquin County has the highest percentage of the population with no college education and is higher than the national and state percentages. Placer County has the highest percentage with an Associates degree, Bachelor’s degree and a Graduate/Professional degree combined.

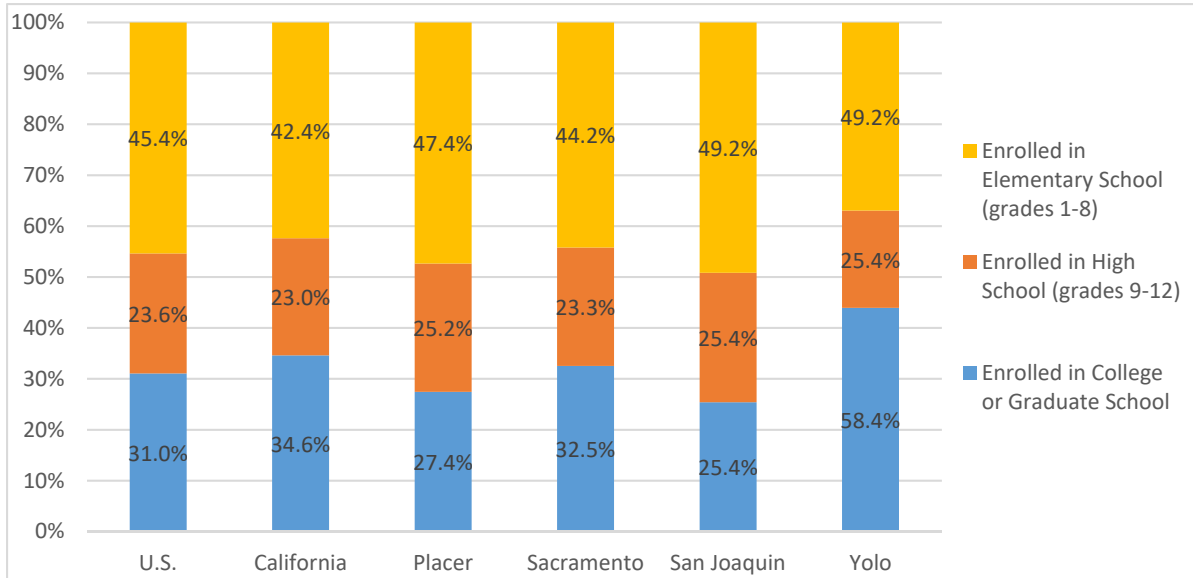
Chart 15: Educational Attainment by level of College Degree U.S., California and Greater Sacramento Area



Source: 2020 American Community Survey, U.S. Census Bureau

Chart 16 shows the enrollment status by location and educational level. The percentage enrolled in college is 58.4% for Yolo County compared to 34.6% for the state of California. The lowest college enrollment in the Greater Sacramento Area is 25.4% in San Joaquin County. Enrollment in elementary school is similar between the U.S, California and the Greater Sacramento Area.

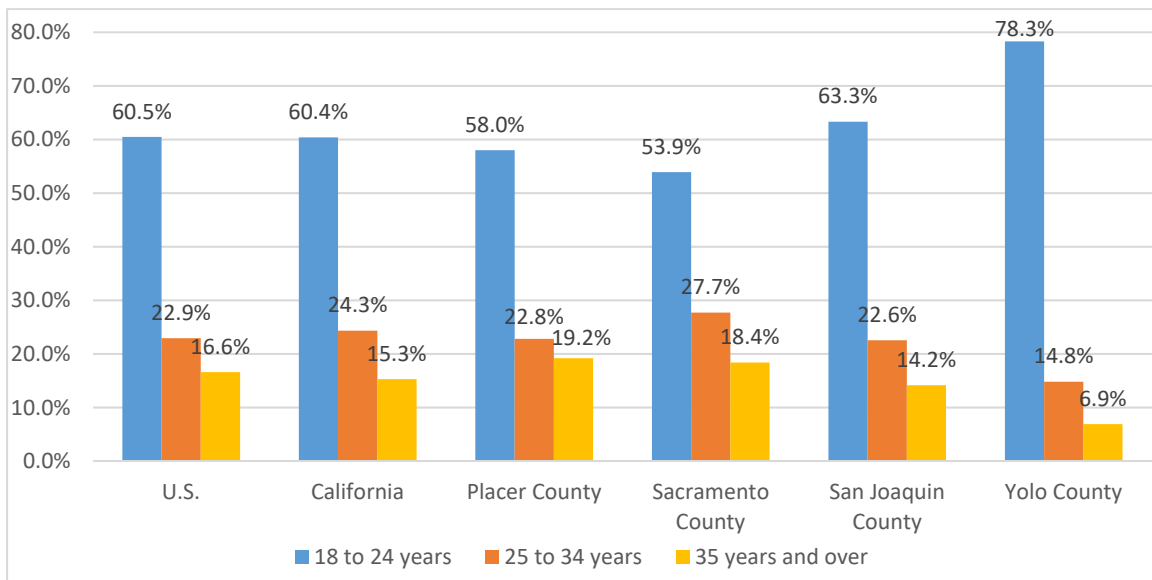
Chart 16: Percentage of Population Enrolled in School-U.S., California, Greater Sacramento Area



Source: 2020 American Community Survey, U.S Census Bureau

Chart 17 examines enrollment in college by age group. According to the chart, Sacramento County is behind the U.S and state of California in college enrollment for 18-24 year olds. Yolo County has the highest percentage in college in the 18-24 age group and the lowest percentage for the 35 years and over age group.

Chart 17: Enrollment in College by Age Group-U.S., California and Greater Sacramento Area



Source: Source: 2020 American Community Survey, U.S Census Bureau

ii. High School Data

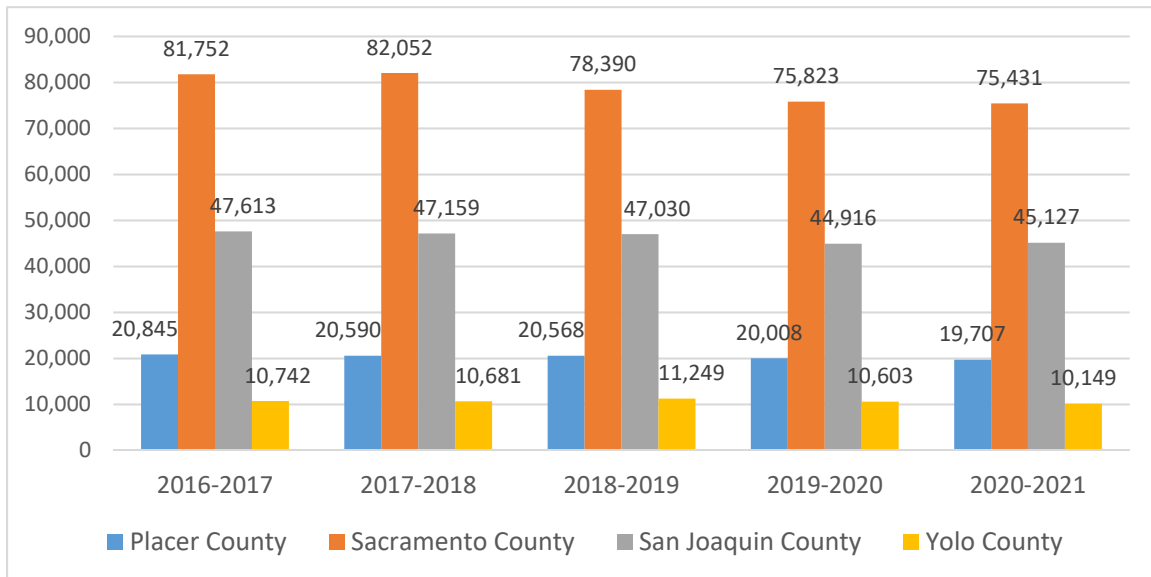
This section presents data on high school enrollment and graduation in public high schools. Table 2 and Chart 18 show enrollments by county in the Greater Sacramento Area. According to the U.S. Census Bureau, public high school enrollment has slowly decreased from 2016 to 2020. Specifically, high school enrollment has been slowly declining for all counties with San Joaquin County showing a slight increase for 2020-2021.

Table 2: Public High School Enrollment in Greater Sacramento Area 2016-17 to 2020-2021

	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	Change 2017-2021
Placer County	20,845	20,590	20,568	20,008	19,707	-1,138
Sacramento County	81,752	82,052	78,390	75,823	75,431	-6,321
San Joaquin County	47,613	47,159	47,030	44,916	45,127	-2,486
Yolo County	10,742	10,681	11,249	10,603	10,149	-593

Source: 2016-2020 American Community Survey, U.S Census Bureau

Chart 18: Public High School Enrollment in Greater Sacramento Area 2016-17 to 2020-21



Source: 2016-2020 American Community Survey, U.S Census Bureau

According to Tables 3 and 4, over a 5-year period San Joaquin County had a 12% increase in 12th grade enrollment while Yolo County had the lowest increase at 2.3%. The counties in the Greater Sacramento Area are surpassing the state increase of -0.4%. Additionally, during the same period of time, San Joaquin had the highest increase in graduation rate of 11.9% from 2017 to 2021. Sacramento County had the lowest increase in graduation rates at 0.3%.

Table 3: Enrollment in 12th Grade in the Greater Sacramento Area-2016-17 to 2020-21

	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	Change 2017-2021
Placer County	5,968	5,848	5,931	6,072	6,103	2.3%
Sacramento County	18,872	19,055	19,540	19,832	20,176	6.9%
San Joaquin County	11,322	11,881	11,778	12,889	12,679	12.0%
Yolo County	2,310	2,428	2,299	2,296	2,364	2.3%
Total Greater Sacramento Area	38,472	39,212	39,548	41,089	41,322	7.4%
California	493,795	504,073	489,650	486,592	491,750	-0.4%

Source: California Department of Education

Table 4: Students Graduating from Public High Schools in the Greater Sacramento Area-2016-17 to 2020-21

	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	Change 2017-2021
Placer County	5,460	5,444	5,404	5,453	5,553	1.7%
Sacramento County	16,522	15,991	16,095	16,244	16,573	0.3%
San Joaquin County	9,644	9,541	10,158	10,498	10,788	11.9%
Yolo County	2,043	2,029	2,153	2,118	2,158	5.6%
Total Greater Sacramento Area	33,669	33,005	33,810	34,313	35,072	4.2%
California	429,560	421,365	431,423	430,108	429,386	-0.04%

Source: California Department of Education

The percentage of 12th graders graduating from high school was 82.8% for the class of 2021 in the Greater Sacramento Area which was slightly less than the State of California (Table 5). Yolo County had the biggest change from 2017 to 2021 with a 5.1% increase.

Table 5: Students Graduating from Public High Schools in the Greater Sacramento Area, 2016-17 to 2020-21

	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	Change 2017 to 2021
Placer County	89.3%	90.5%	89.9%	91.0%	89.5%	0.3%
Sacramento County	80.8%	81.0%	82.0%	83.7%	80.6%	-0.2%
San Joaquin County	80.9%	81.7%	83.7%	79.6%	81.4%	0.6%
Yolo County	86.8%	86.9%	89.1%	88.6%	91.2%	5.1%
Total Greater Sacramento Area	82.5%	83.0%	84.1%	83.9%	82.8%	0.3%
California	82.7%	83.0%	84.5%	84.3%	83.6%	1.1%

Source: California Department of Education

III. Local Higher Education Providers

A. Postsecondary Education Providers in the Sacramento Area

There are nine major postsecondary education providers in the Greater Sacramento Area. They are:

- California State University, Sacramento
- University of California, Davis
- Sierra College
- American River College
- Cosumnes River College
- Folsom Lake College
- Sacramento City College
- Woodland Community College
- San Joaquin Delta College

In addition to these postsecondary institutions there are several licensed career schools and colleges in the Greater Sacramento Area. These schools provide training in a variety of fields.

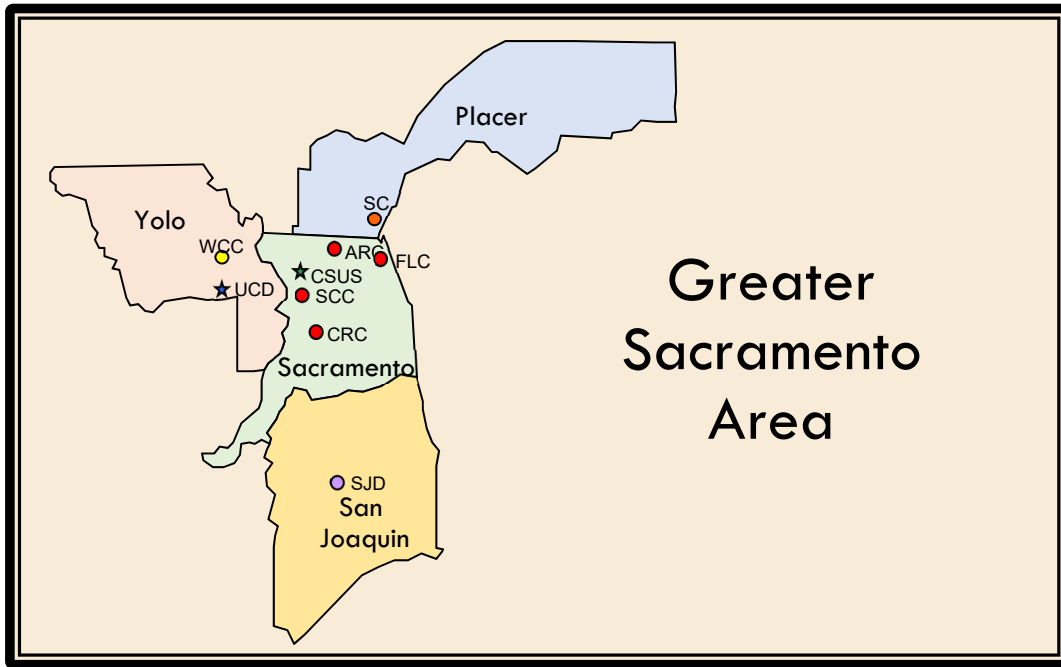
- San Joaquin Valley College
- Universal Technical Institute
- Carrington College
- University of the Pacific
- Epic Bible College & Graduate School
- Unitek College
- Humphreys University
- InterCoast College
- William Jessup University
- University of Phoenix Sacramento Valley Campus

B. Description of Major Postsecondary Providers

The Map below shows the location of each of the following postsecondary education providers which is followed by a brief description of each.

- California State University, Sacramento
- University of California, Davis
- Sierra College in Rocklin
- American River College in Sacramento
- Cosumnes River College in Sacramento
- Folsom Lake College in Folsom
- Sacramento City College in Sacramento
- Woodland Community College in Woodland
- San Joaquin Delta College in Stockton

Map 2: Location of Major Postsecondary Providers in the Greater Sacramento Area



California State University, Sacramento

- Sacramento State’s mission is that as California’s capital university, it will transform lives by preparing students for leadership, service, and success. The vision for the future is that Sacramento State will be a recognized leader in education, innovation, and engagement. Sacramento State’s value are Student Success; Scholarship, Research, and Creative Activity; Diversity and Inclusion; Community Engagement; Innovation; Integrity; and Accountability
- Strategic Goals - Enhance student learning and success; Foster innovative teaching, scholarship, and research; Commit to engaging the community by building enduring partnerships that strengthen and enrich the region; Engage students in a comprehensive university experience; Excel as a place to learn, work, live, and visit; Promote a strong University identity
- Founded: 1947 as Sacramento State College
- Academic colleges: Seven, offering 58 undergraduate majors
- An engaged campus: Honored by the Carnegie Foundation for community engagement
- The campus: 300 acres with 3,500 trees; designated a as Tree Campus USA
- Economic impact: More than \$900 million yearly to the Sacramento region
- Carnegie Classification is: Master's Colleges & Universities: Larger Programs
- Fall 2021 enrollment was 31,573. 36% of students were Latino, 25% White, 19% Asian, with the remaining students being African American, American Indian, Pacific Islander, and multiracial.
- For more information on Sacramento State visit their website at: www.csus.edu

UC Davis

- UC Davis’s goal in the 2020 Initiative is to increase financial stability by reducing our reliance on the state for funding. UC Davis is doing this by adding 5,000 new undergraduates — Californian, national and international students — between 2011 and 2020. This initiative has allowed us to provide more international experiences for our campus community. At the same time, we’re creating a more diverse educational climate as we educate future global leaders.

- The Strategic Plan for Diversity and Inclusion will reflect the campus' continuing commitment to creating an environment in which all members of the campus community are welcomed, respected and valued. Through conversations and engagement with faculty, staff, students and alumni, the Diversity and Inclusion Planning Committee is developing goals and strategies for moving the university toward its goal of inclusive excellence.
- UC Davis first opened its doors in 1908 as the University Farm, the research and science-based instruction extension of UC Berkeley.
- Offering 104 undergraduate majors, 99 graduate programs
- Carnegie Classification is: Doctoral Universities: Highest Research Activity
- Fall 2021 enrollment was 40,050.
- For more information on UC Davis visit their website at: www.ucdavis.edu

Sierra College

- Sierra College was officially established in 1936, although earlier colleges that are historically linked to Sierra College were in existence from 1882 onward. The college's rich history is preserved in The Archives of Sierra College History in room LRC 442 of the Rocklin campus Learning Resources Center/Library.
- Mission Statement: Sierra College provides a challenging and supportive learning environment for students having diverse goals, abilities, and needs interested in transfer, career and technical training, and lifelong learning. The College's programs and services encourage students to identify and to expand their potential. Sierra College students will develop the knowledge, skills and abilities to become engaged and contributing members of the community.
- Offers approximately 125 degree and certificate programs, career/technical training, and classes for upgrading job skills.
- Carnegie Classification is: Associate's Colleges: High Transfer-High Traditional
- Fall 2021 enrollment was 16,360.
- For more information on Sierra College visit their website at: www.sierracollege.edu

Los Rios Community College District – includes American River College, Cosumnes River College, Folsom Lake College, Sacramento City College

- Mission: The Los Rios Colleges provide a vibrant learning environment that empowers all students to achieve their educational and career goals.
- Vision: To transform the lives of students and enhance the vitality of our region.
- Goals: Establish effective pathways that optimize student access and success; Ensure equitable academic achievement across all racial, ethnic, socioeconomic and gender groups; Provide exemplary teaching and learning opportunities; Lead the region in workforce development; Foster an outstanding working and learning environment.
- Our colleges offer AA/AS degrees, certificates and transfer education opportunities - students complete freshman and sophomore years and transfer to a four-year college or university - in more than 70 career fields.
- About 68,000 students are enrolled in the colleges for Fall 2021.
- The Committee on Awards for Innovation in Higher Education recently announced that Los Rios Community College District (LRCCD), in partnership with Sacramento State, was awarded \$2 million to develop a new collaborative to increase student completion rates between community college and their pursuit of a four-year degree. Through this partnership, Los Rios and Sacramento State will work together on new student-focused technologies and curriculum, as well as alignment in student counseling.
- Carnegie Classification is: ARC - Associate's Colleges: High Transfer-High Traditional, CRC- Associate's Colleges: Mixed Transfer/Career & Technical-High Traditional, FLC - Associate's Colleges: High Transfer-High Traditional, SCC - Associate's Colleges: High Transfer-High Traditional Associate's Colleges: High Transfer-High Traditional
- For more information on Los Rios Community College District visit their website at: www.losrios.edu

Woodland Community College

- The mission of Woodland Community College is to provide high quality, student-centered education and lifelong learning opportunities for the communities we serve. At WCC, students pursue their educational goals in an environment that values diversity, individuality, mutual respect, civic responsibility, and the free exchange of ideas.
- In the fall of 1975 Woodland offered courses in an outreach program. In 1981 the California Postsecondary Education Commission labeled Woodland as an official education center. In 1990, Woodland Center (now Woodland Community College) relocated to its current 120 acres (49 ha) parcel of land. In 1999 Yuba Community College District notified its intent for Woodland Center to become a self-sufficient community college, the same year that a Child Development center was opened on campus. The next year the district received the approval from the State Chancellor's office to begin Woodland Center's process of being a comprehensive college.
- Recently recognized by Schools.com as having one of the best student-to-teacher ratios among California's top 25 community Colleges.
- Combined UC and CSU transfer rates consistently place the college among the top 10 percent of all community colleges statewide
- Federally Designated Hispanic Serving Institute
- Carnegie Classification is: Associate's Colleges: High Transfer-High Traditional
- For more information on Woodland Community College visit their website at: www.wcc.yccd.edu

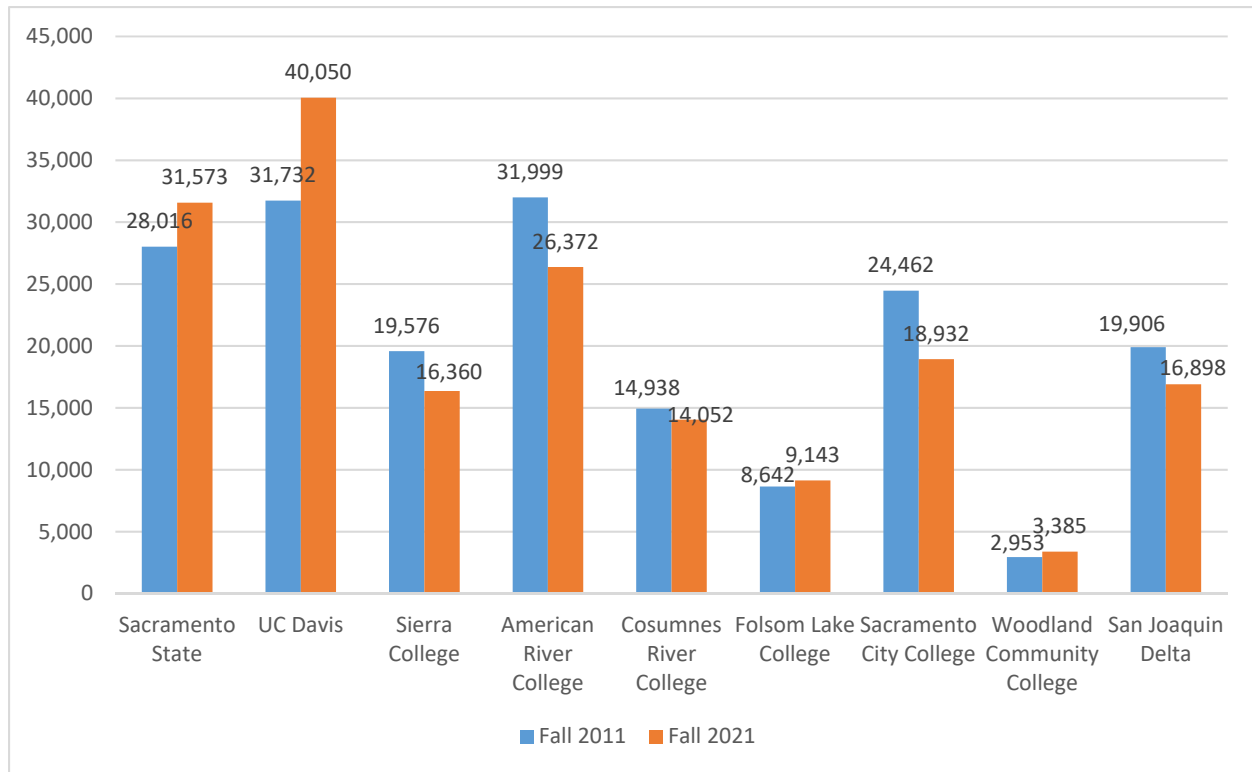
San Joaquin Delta College

- Mission: San Joaquin Delta Community College District serves the needs of students and the District community by providing excellent post-secondary education to the associate degree level, general education and preparation for transfer to other post-secondary institutions, career and technical education, economic development, and the development of intellectual autonomy. To achieve this objective, the faculty and staff are committed to offering high quality instructional programs, student services, and efforts to enhance the public good.
- Vision: The faculty, staff, and students of San Joaquin Delta Community College District envision a community of lifelong learners, passionately pursuing and achieving ever-higher educational goals, and fully appreciating the diverse and dynamic world around them.
- San Joaquin Delta Community College District was originally founded in 1935 as Stockton Junior College, a part of the Stockton City School system. The College of the Pacific, now University of the Pacific (Pacific), helped form the original Stockton Junior College. As an accredited community college, Delta has collaborated with Pacific to serve the higher educational needs of the area for more than 50 years.
- Carnegie Classification is: Associate's Colleges: High Transfer-High Traditional
- For more information on San Joaquin Delta College visit their website at: www.deltacollege.edu

C. Postsecondary Enrollment Data

This section reflects enrollment and graduation data for nine higher education institutions. The institutions include: Sacramento State, UC Davis, Sierra College, American River College, Cosumnes River College, Folsom Lake College, Sacramento City College, Woodland Community College and San Joaquin Delta. According to Chart 19, UC Davis and Sacramento State have the highest total enrollment for fall 2021. When examining community colleges, only Woodland Community College and Folsom Lake College have higher enrollment for fall 2021 compared to fall 2011. Other community colleges show a decline of student enrollment from Fall 2011 to Fall 2021.

Chart 19: Total Fall Enrollment by Education Provider Fall 2011 and Fall 2021



Sources: <http://asd.calstate.edu>, <http://datamart.cccco.edu>, <https://aggiedata.ucdavis.edu/>

The change in fall enrollment figures are presented in Table 6. UC Davis had the greatest percent change followed by Woodland Community College, while Sacramento City College showing the biggest decrease.

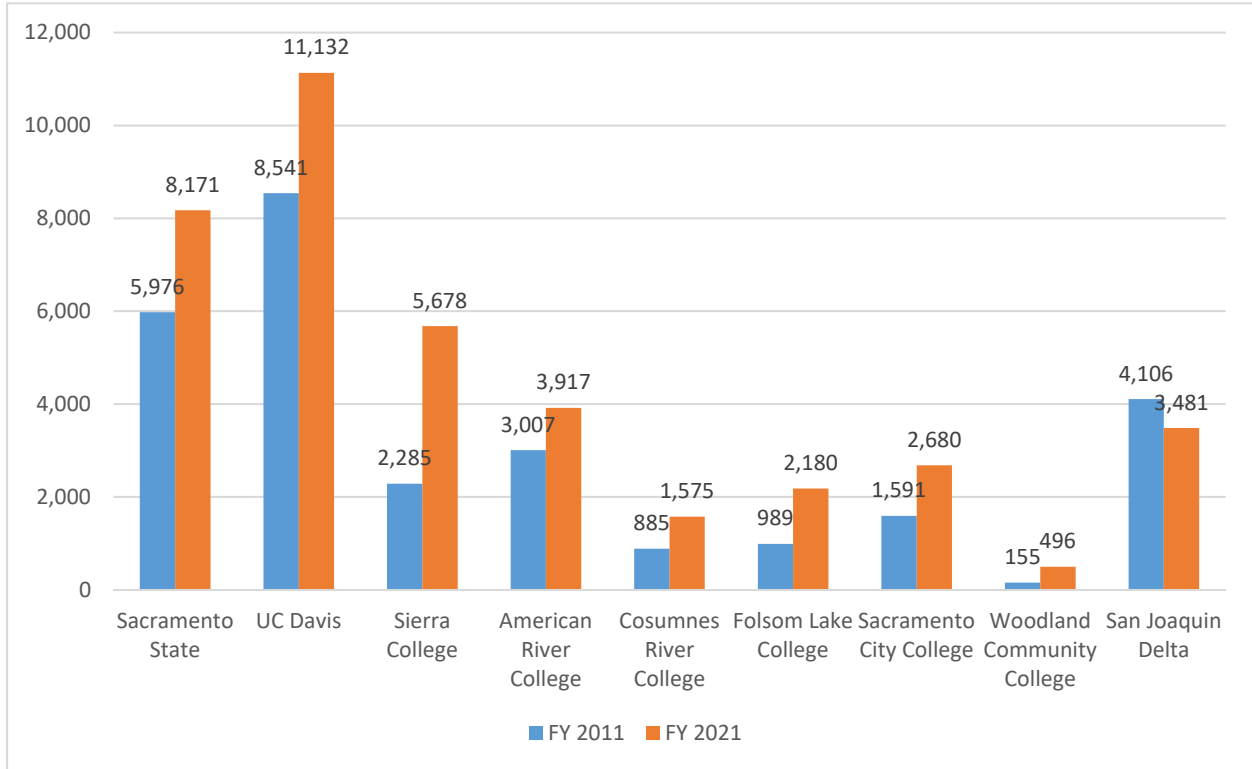
Table 6: Change in Fall Enrollment by Education Provider Fall 2011 to Fall 2021

Education Provider	Fall 2011	Fall 2021	Numeric Change	Percent Change
Sacramento State	28,016	31,573	3,557	12.7%
UC Davis	31,732	40,050	8,318	26.2%
Sierra College	19,576	16,360	-3,216	-16.4%
American River College	31,999	26,372	-5,627	-17.6%
Cosumnes River College	14,938	14,052	-886	-5.9%
Folsom Lake College	8,642	9,143	501	5.8%
Sacramento City College	24,462	18,932	-5,530	-22.6%
Woodland Community College	2,953	3,385	432	14.6%
San Joaquin Delta	19,906	16,898	-3,008	-15.1%
Total	182,224	176,765	-5,459	-3.0%

Sources: <http://asd.calstate.edu>, <http://datamart.cccco.edu>, <https://aggiedata.ucdavis.edu/>

The number of graduates is provided for FY 2011 and FY 2021. UC Davis had the highest number of graduates with 11,132 in FY 2021. Sacramento State increased from 5,976 in FY 2011 to 8,171 in FY 2021.

Chart 20: Total Graduates by Education Provider FY 2011 and FY 2021



Sources: <http://www.csus/oir>, <http://datamart.cccco.edu>, <https://www.universityofcalifornia.edu>

Table 7 highlights the change in number of graduates. The percent change was drastic for Woodland Community College between FY 2011 and FY 2021. Sierra College and Folsom Lake College also had triple digit increases. An important thing to point out is that almost all colleges had an increase. San Joaquin Delta is the only college to have a decrease.

Table 7: Change in Number of Graduates by Education Provider FY 2011 and FY 2021

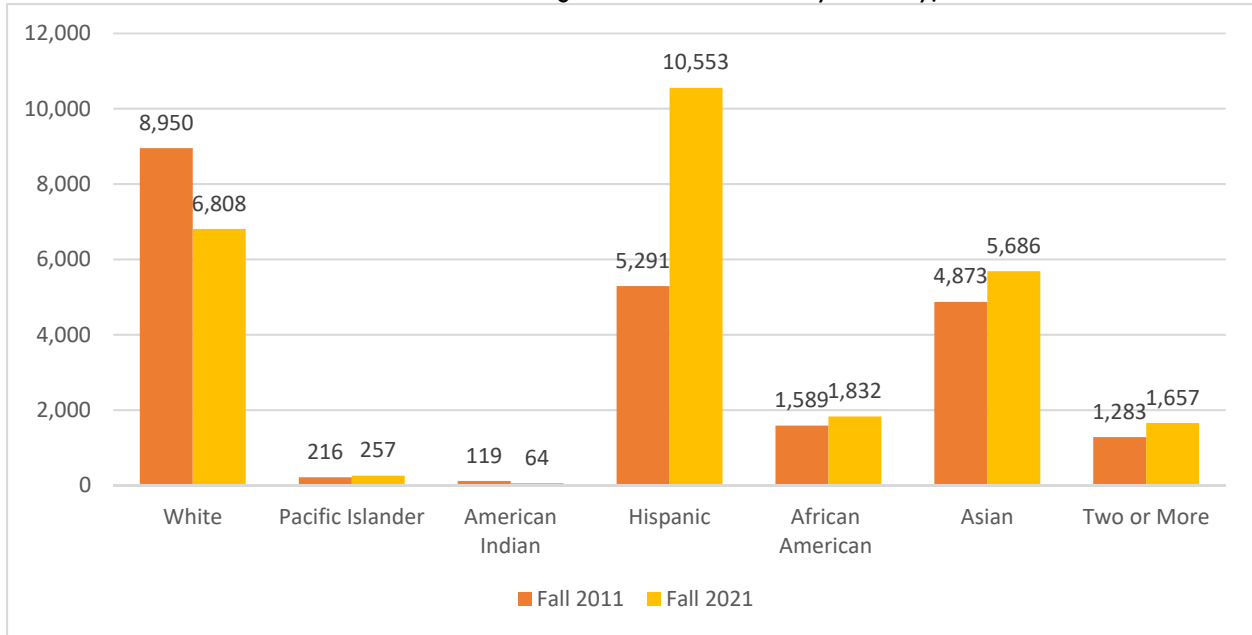
Education Provider	FY 2011	FY 2021	Numeric Change	Percent Change
Sacramento State	5,976	8,171	2,195	36.7%
UC Davis	8,541	11,132	2,591	30.3%
Sierra College	2,285	5,678	3,393	148.5%
American River College	3,007	3,917	910	30.3%
Cosumnes River College	885	1,575	690	78.0%
Folsom Lake College	989	2,180	1,191	120.4%
Sacramento City College	1,591	2,680	1,089	68.4%
Woodland Community College	155	496	341	220.0%
San Joaquin Delta	4,106	3,481	-625	-15.2%
Total	27,535	39,310	11,775	42.8%

Sources: <http://www.calstate.edu>, <http://datamart.cccco.edu>, <https://www.universityofcalifornia.edu>

ACADEMIC PROGRAM NEEDS ASSESSMENT OF THE GREATER SACRAMENTO AREA

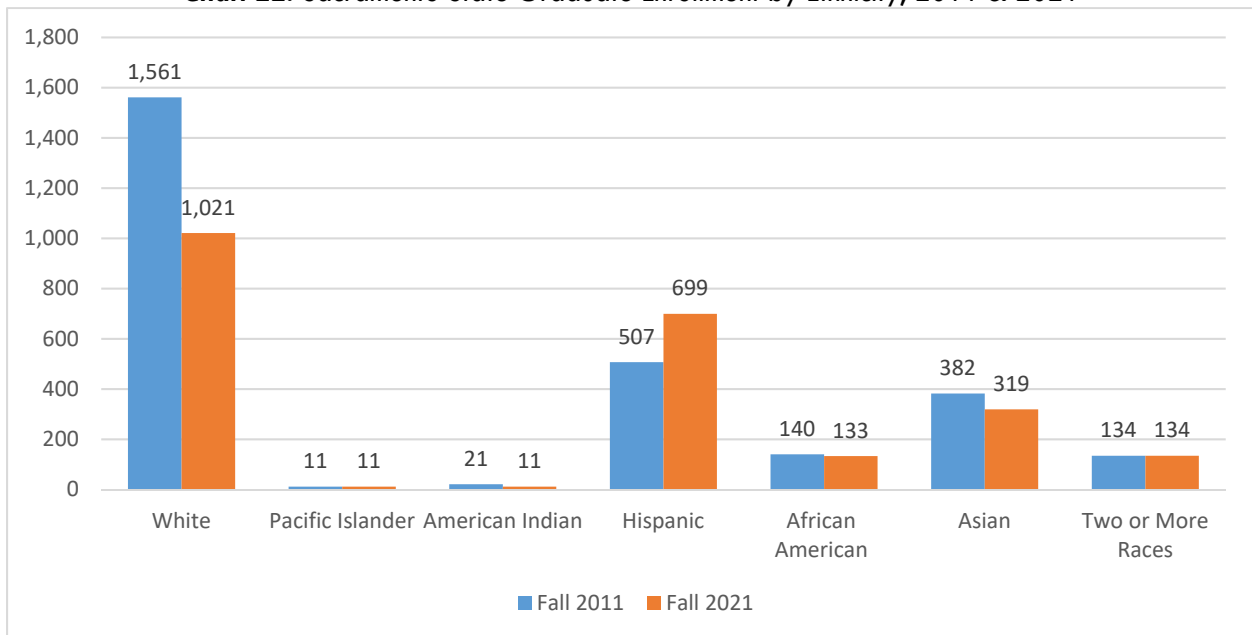
Charts 21 through 40 highlight the demographics of Undergraduate Enrollment by ethnicity. These charts also include student enrollment demographics by gender. Additionally, Graduate student enrollment demographics are provided for Sacramento State and UC Davis. All data tables are measured for fall 2011 & fall 2021. Chart 21 shows a significant increase in the Hispanic student population from fall 2011 to fall 2021. This is an ongoing trend in the colleges and Universities across the Greater Sacramento Area (community colleges and undergraduates). Additionally, we see a decline in the American Indian and White student enrollment population. Graduate student demographics for fall 2011 and fall 2021 include a White majority enrollment (Chart 22)

Chart 21: Sacramento State Undergraduate Enrollment by Ethnicity, 2011 & 2021



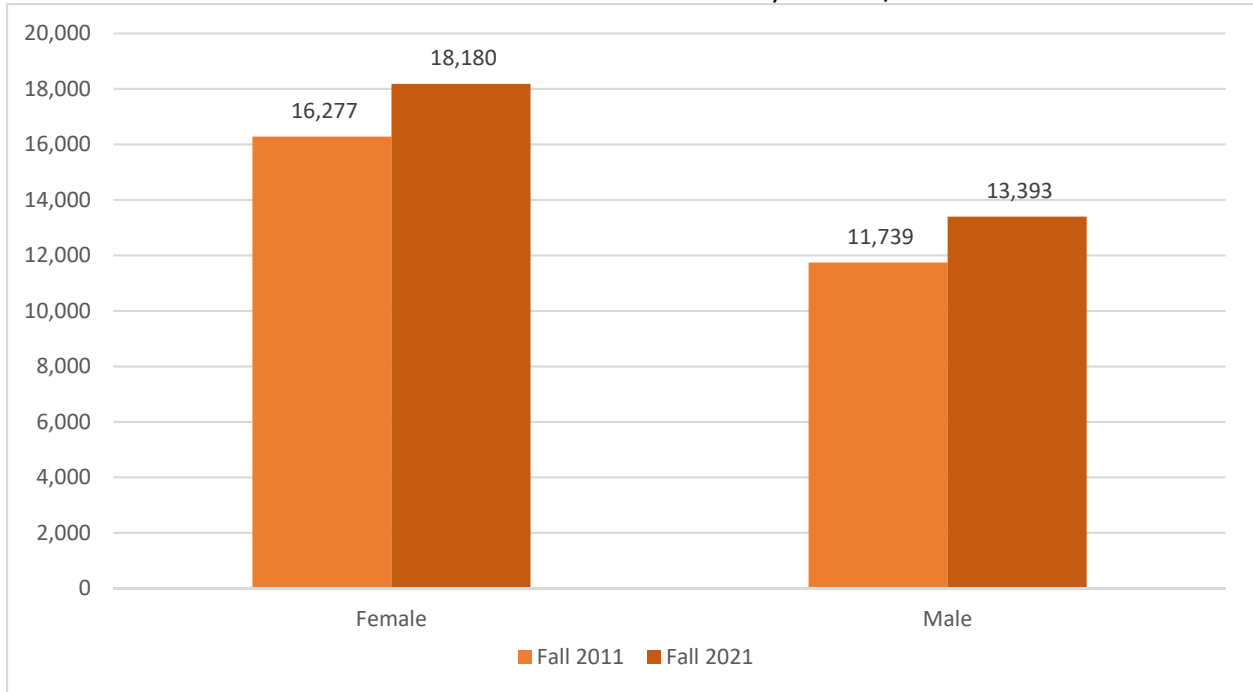
Source: <https://tableau.calstate.edu/views/SelfEnrollmentDashboard/EnrollmentSummary>

Chart 22: Sacramento State Graduate Enrollment by Ethnicity, 2011 & 2021



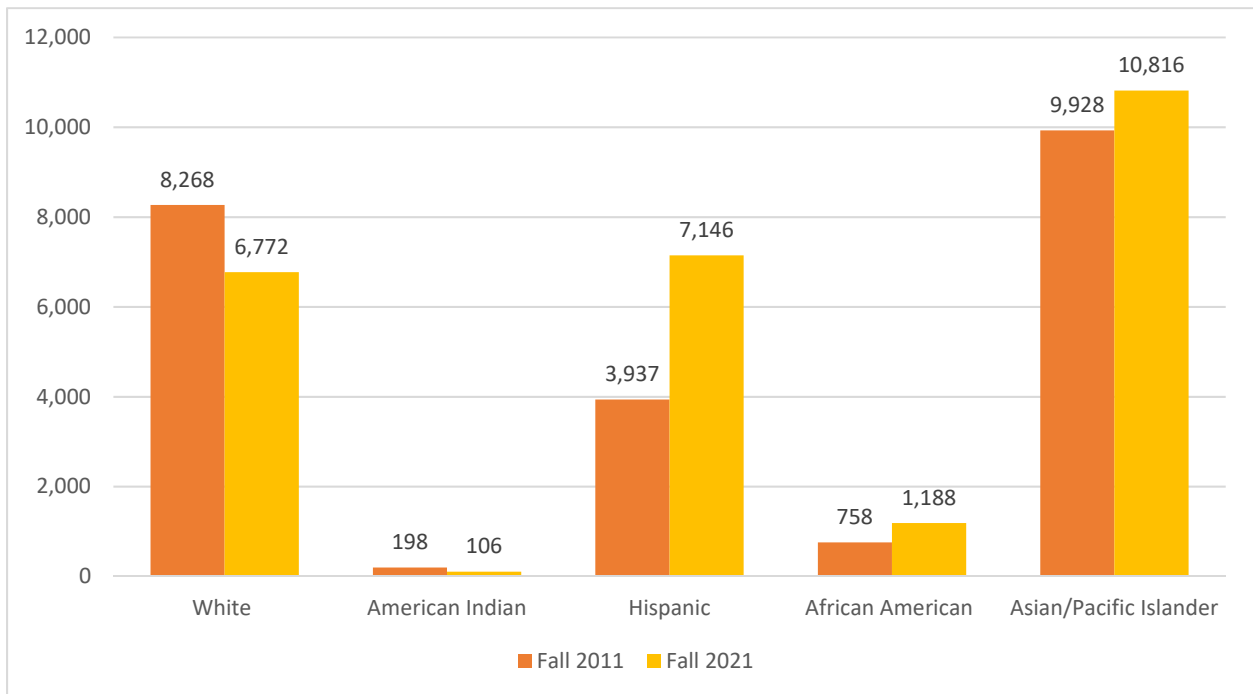
Source: <https://tableau.calstate.edu/views/SelfEnrollmentDashboard/EnrollmentSummary>

Chart 23: Sacramento State Student Enrollment by Gender, 2011 & 2021



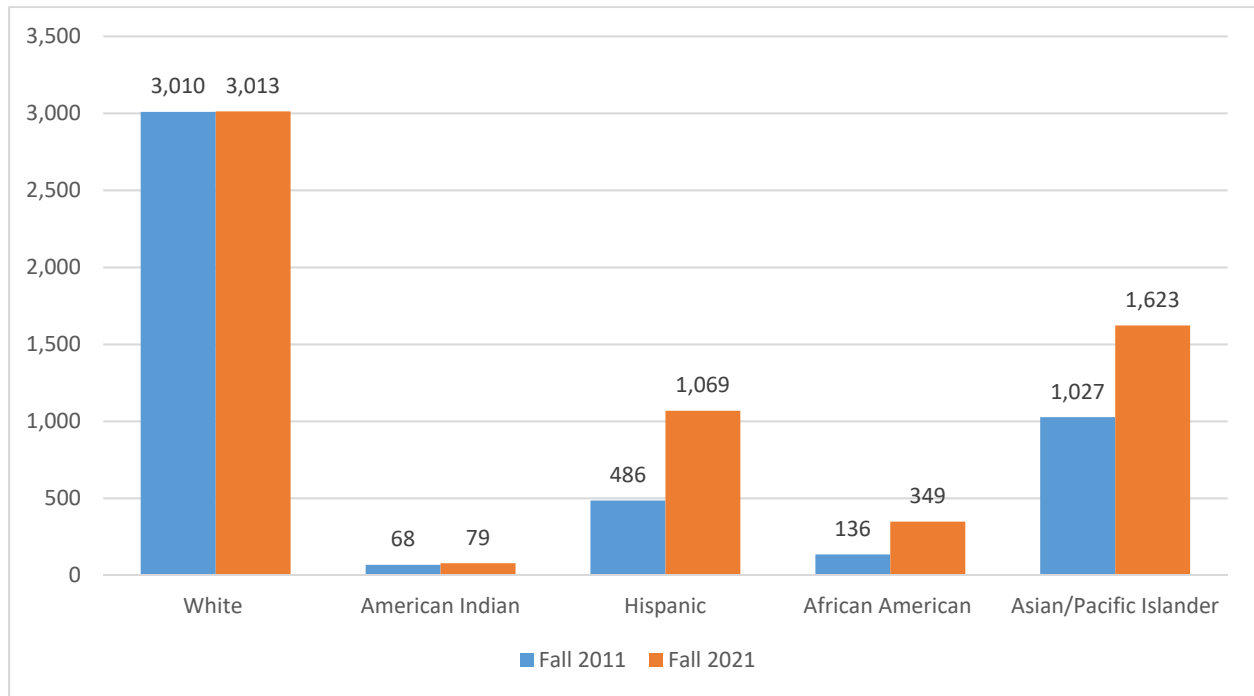
Source: <https://tableau.calstate.edu/views/SelfEnrollmentDashboard/EnrollmentSummary>

Chart 24: UC Davis Undergraduate Enrollment by Ethnicity, 2011 & 2021



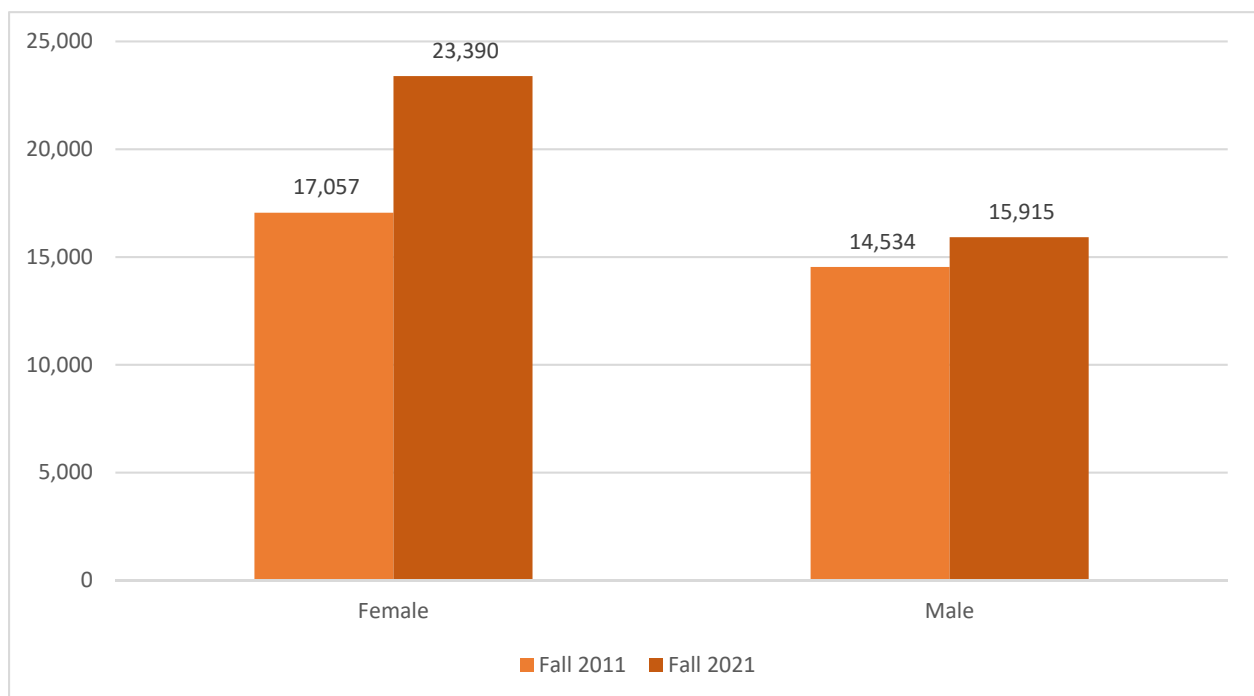
Source: <https://www.universityofcalifornia.edu>

Chart 25: UC Davis Graduate Enrollment by Ethnicity, 2011 & 2021



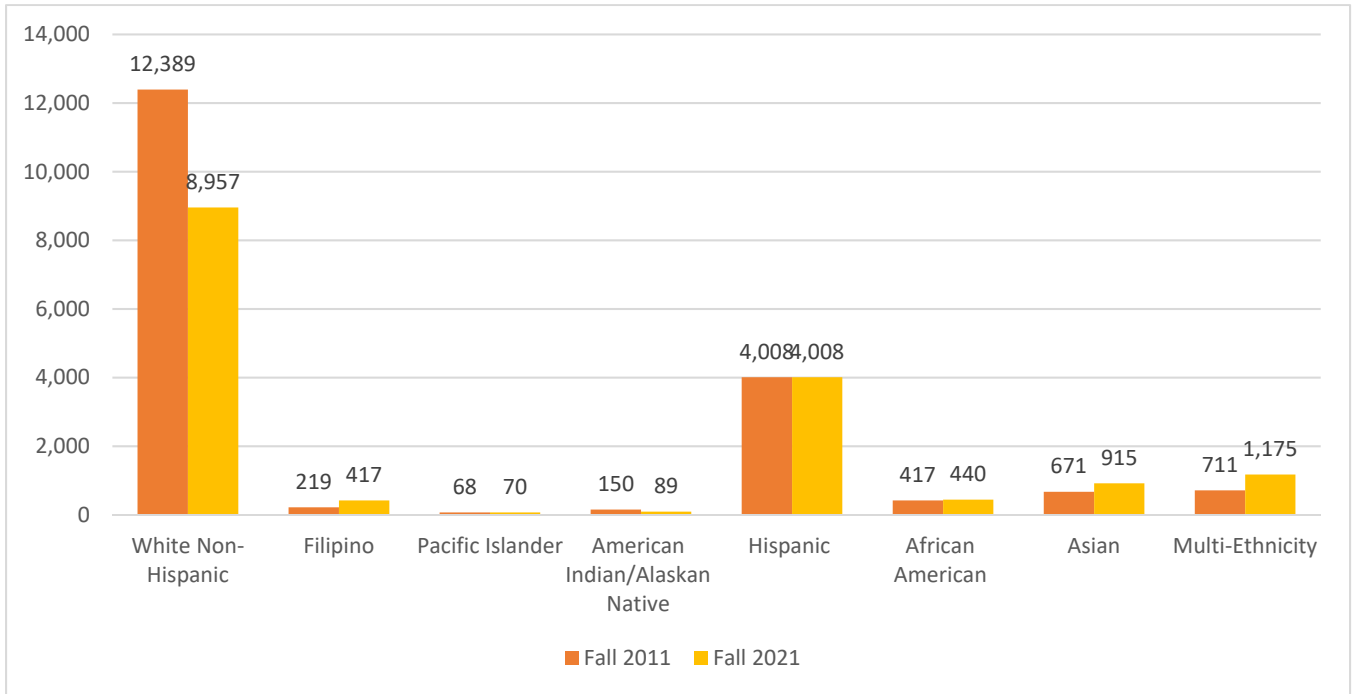
Source: <https://www.universityofcalifornia.edu>

Chart 26: UC Davis Enrollment by Gender, 2011 & 2021



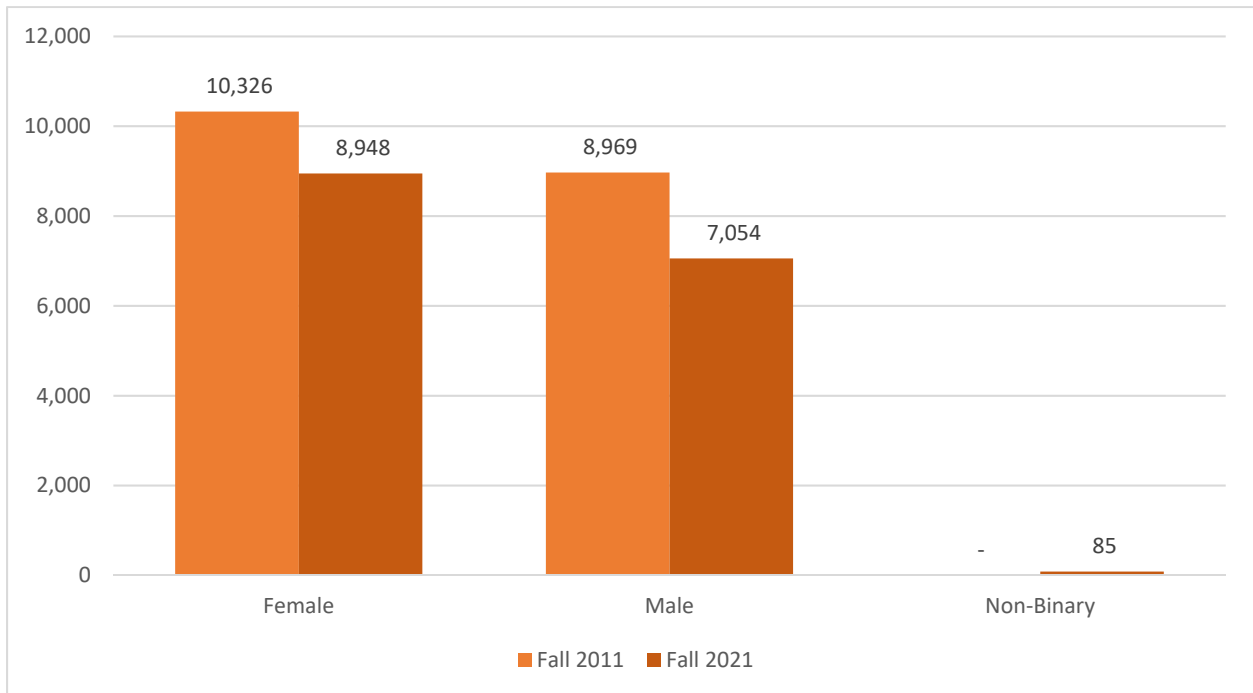
Source: <https://www.universityofcalifornia.edu>

Chart 27: Sierra College Enrollment by Ethnicity, 2011 & 2021



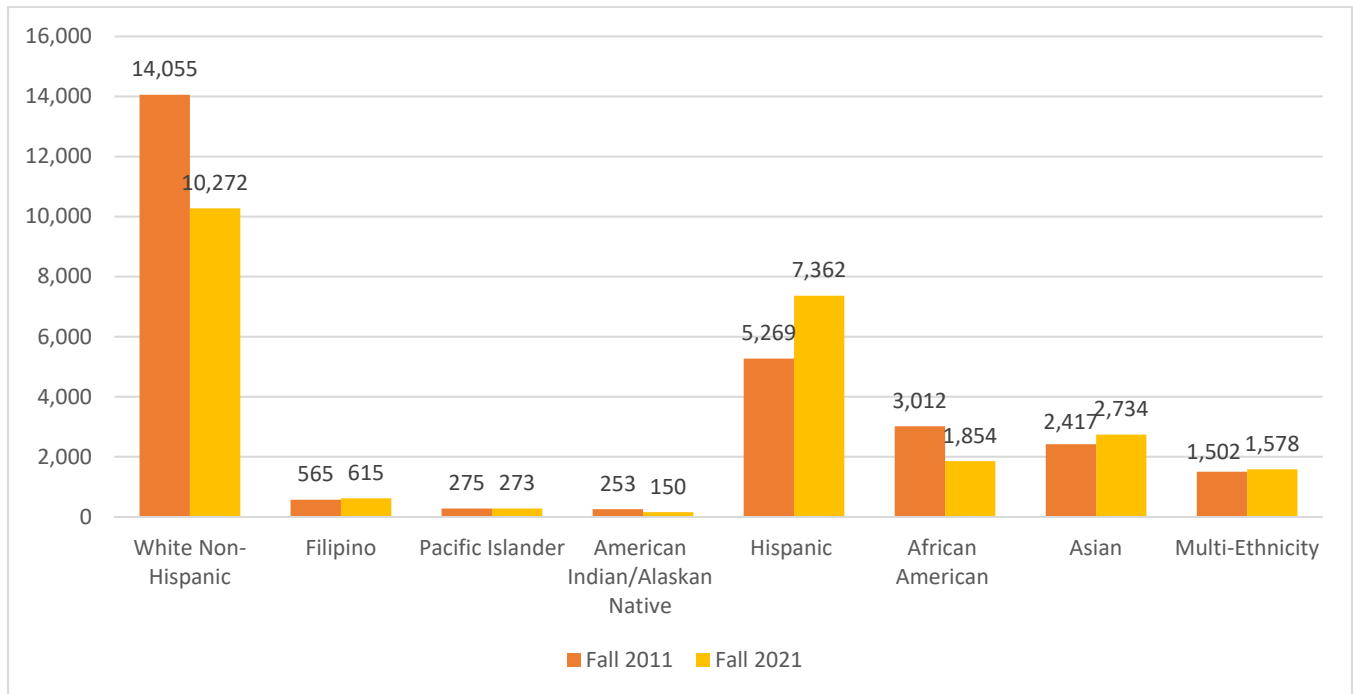
Source: <https://datamart.cccco.edu/Students>

Chart 28: Sierra College Enrollment by Gender, 2011 & 2021



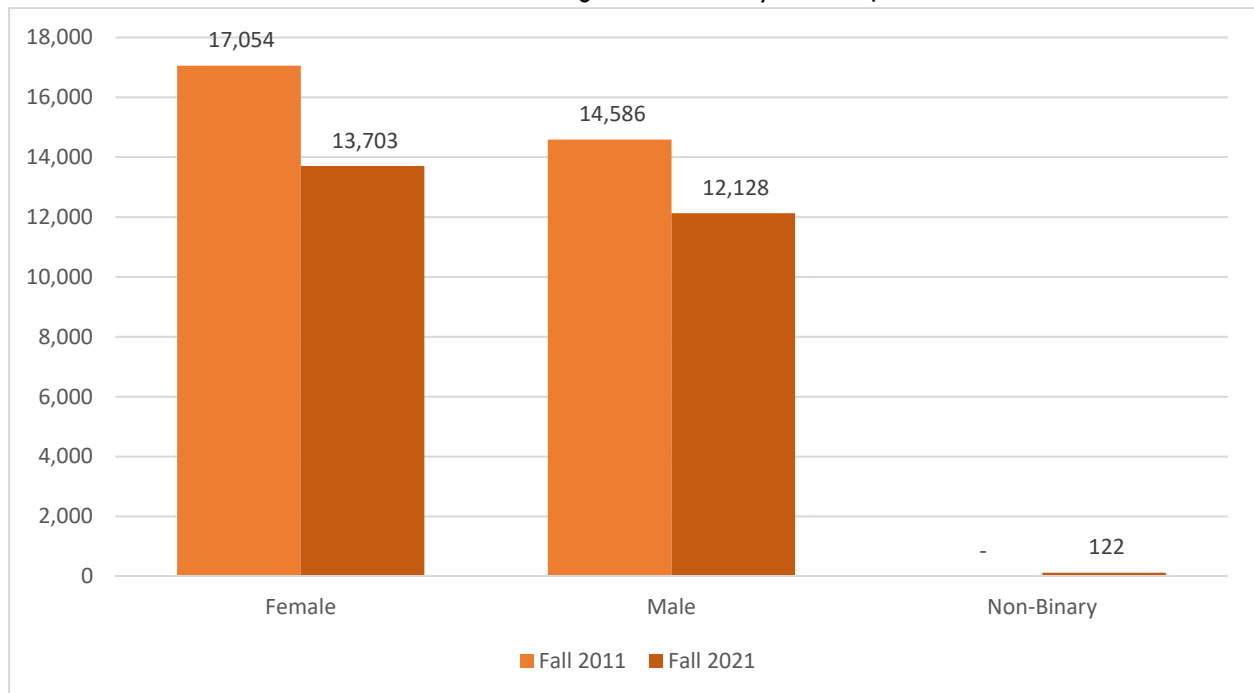
Source: <https://datamart.cccco.edu/Students>

Chart 29: American River College Enrollment by Ethnicity, 2011 & 2021



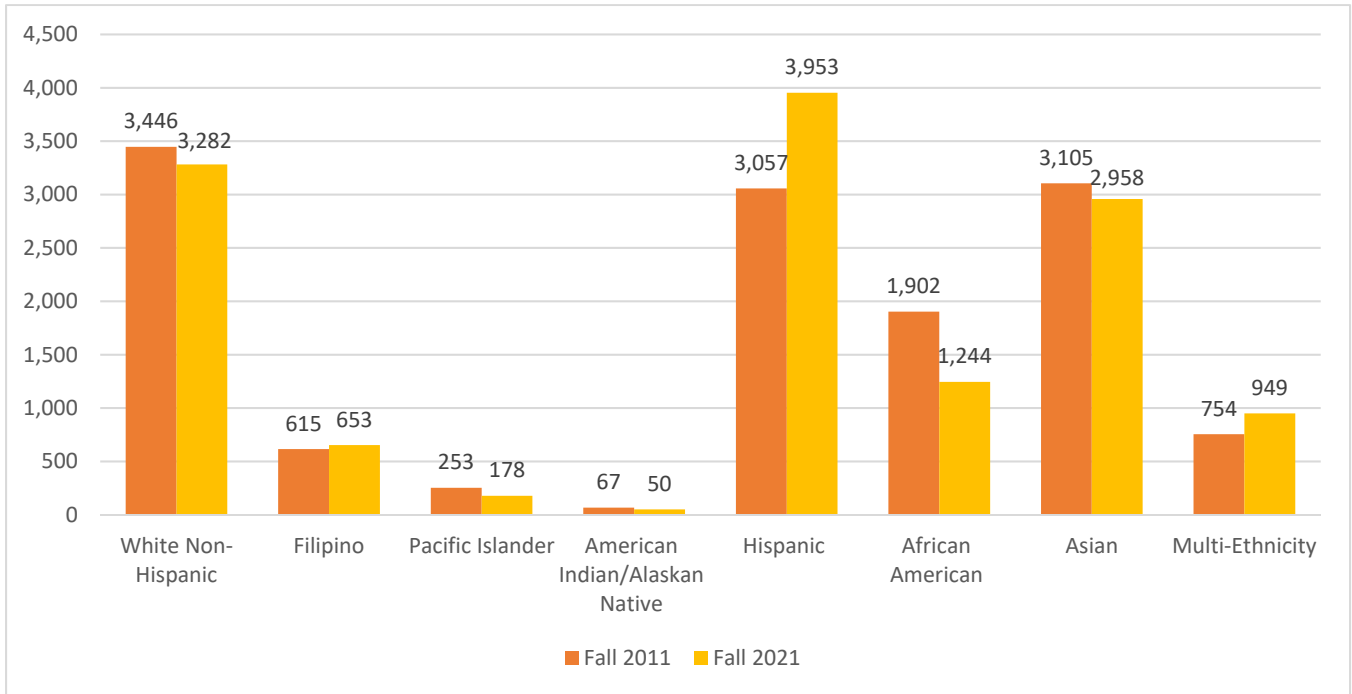
Source: <https://datamart.cccco.edu/Students>

Chart 30: American River College Enrollment by Gender, 2011 & 2021



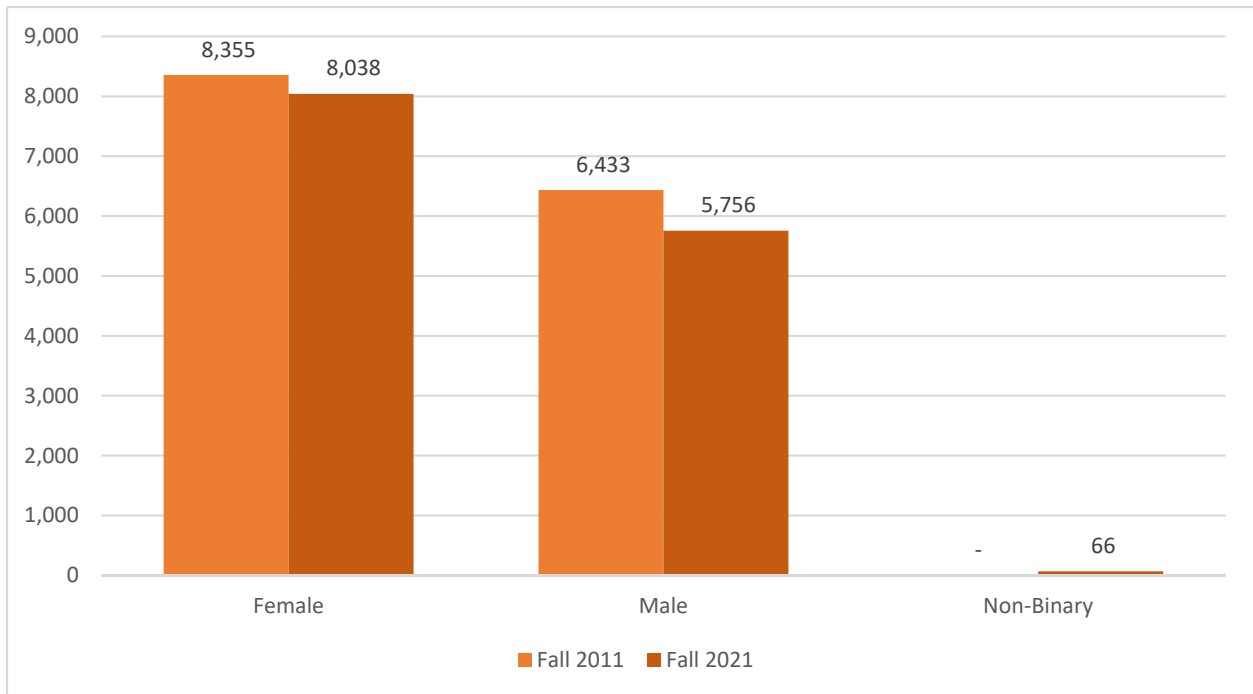
Source: <https://datamart.cccco.edu/Students>

Chart 31: Cosumnes River College Enrollment by Ethnicity, 2011 & 2021



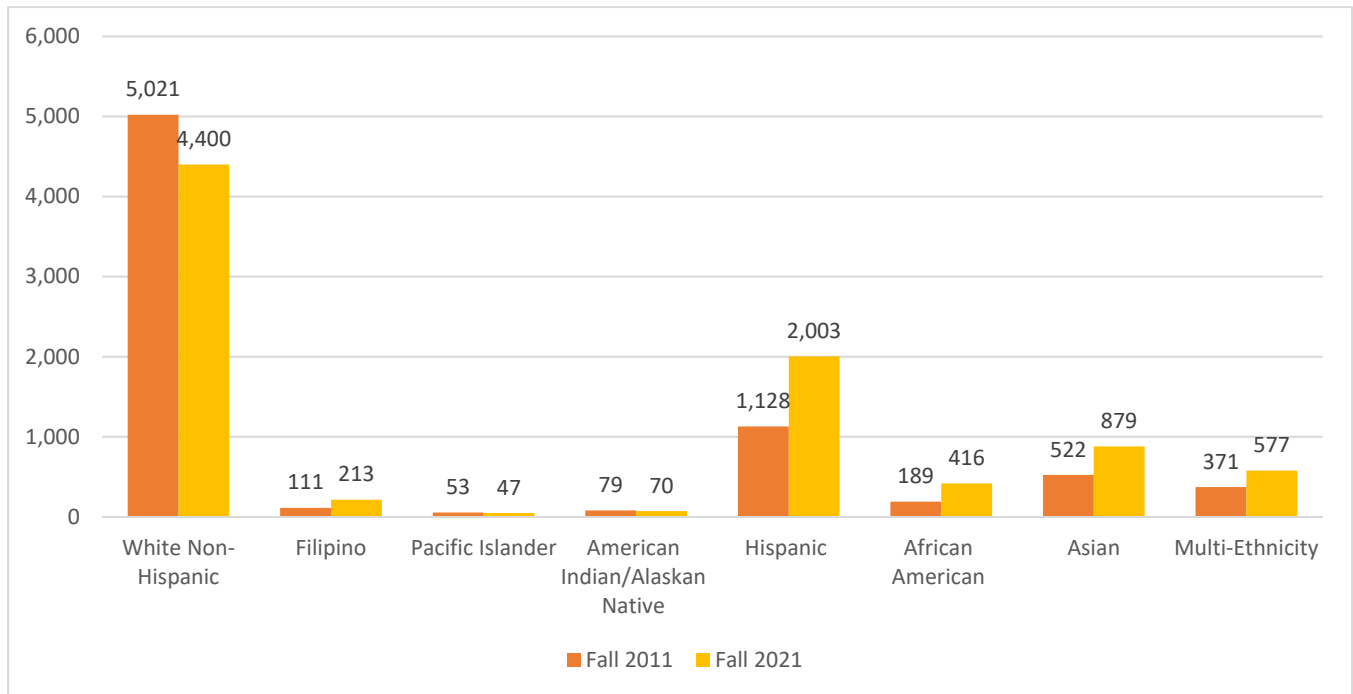
Source: <https://datamart.cccco.edu/Students>

Chart 32: Cosumnes River College Enrollment by Gender, 2011 & 2021



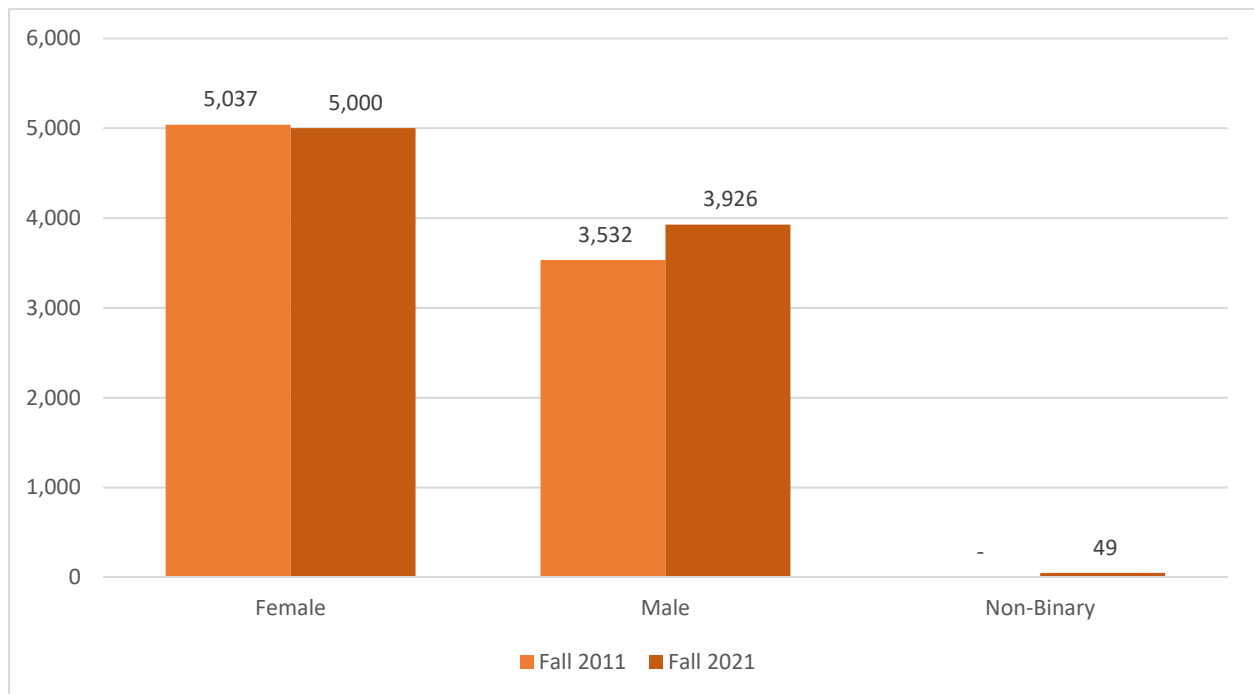
Source: <https://datamart.cccco.edu/Students>

Chart 33: Folsom Lake College Enrollment by Ethnicity, 2011 & 2021



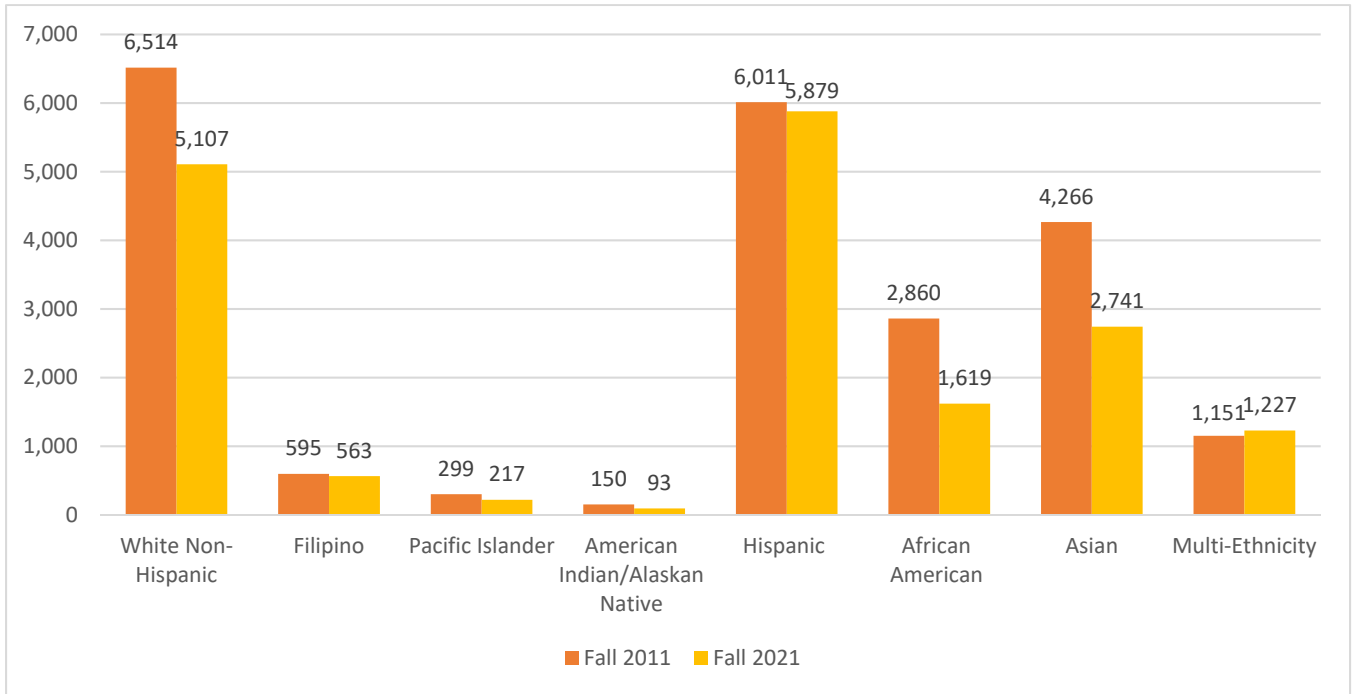
Source: <https://datamart.cccco.edu/Students>

Chart 34: Folsom Lake College Enrollment by Gender, 2011 & 2021



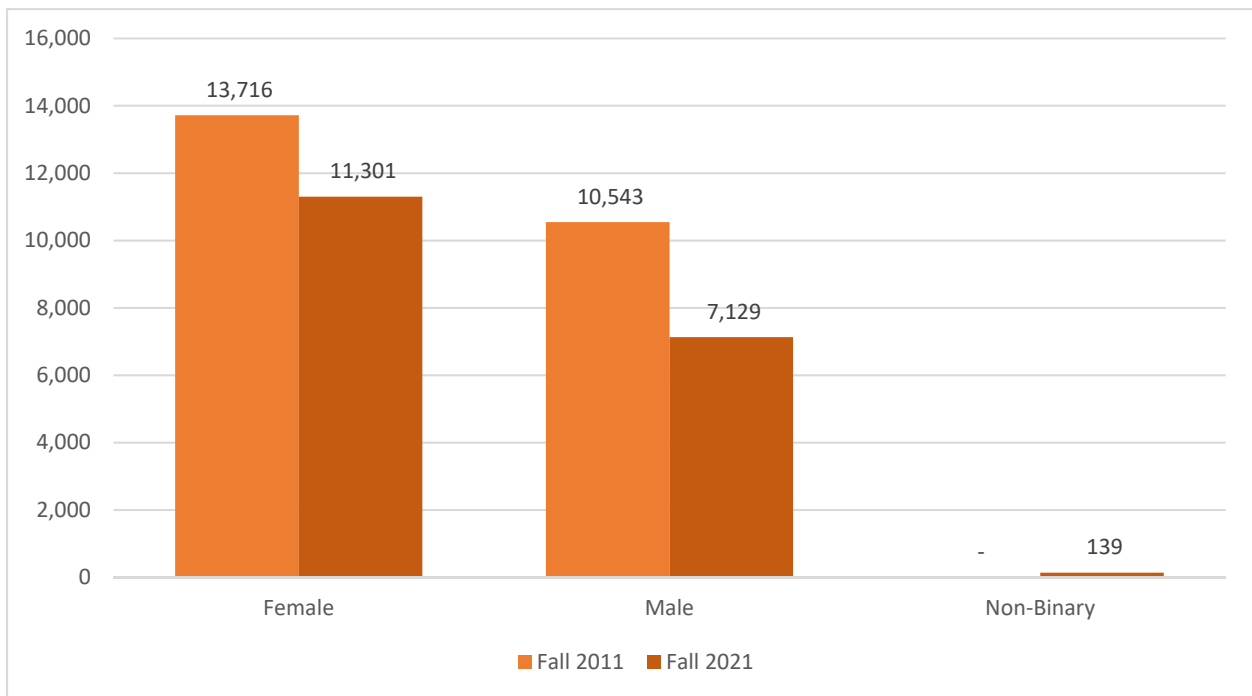
Source: <https://datamart.cccco.edu/Students>

Chart 35: Sacramento City College Enrollment by Ethnicity, 2011 & 2021



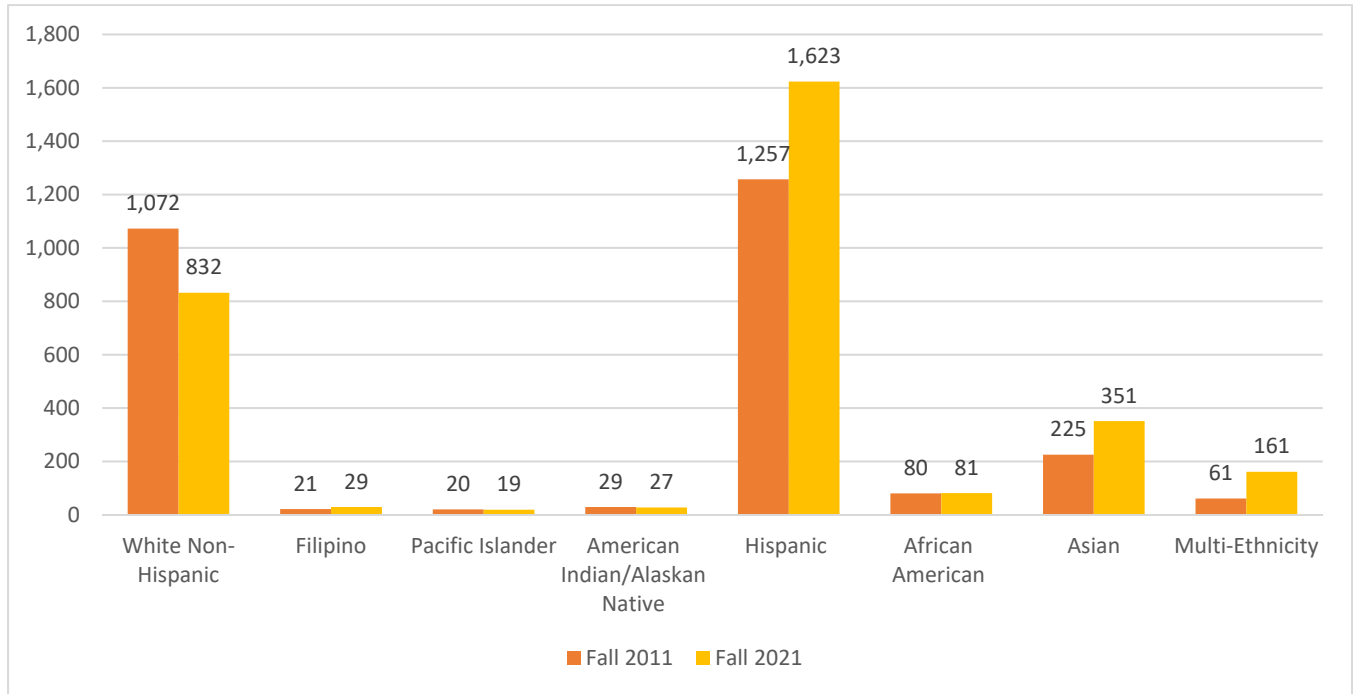
Source: <https://datamart.cccco.edu/Students>

Chart 36: Sacramento City College Enrollment by Gender, 2011 & 2021



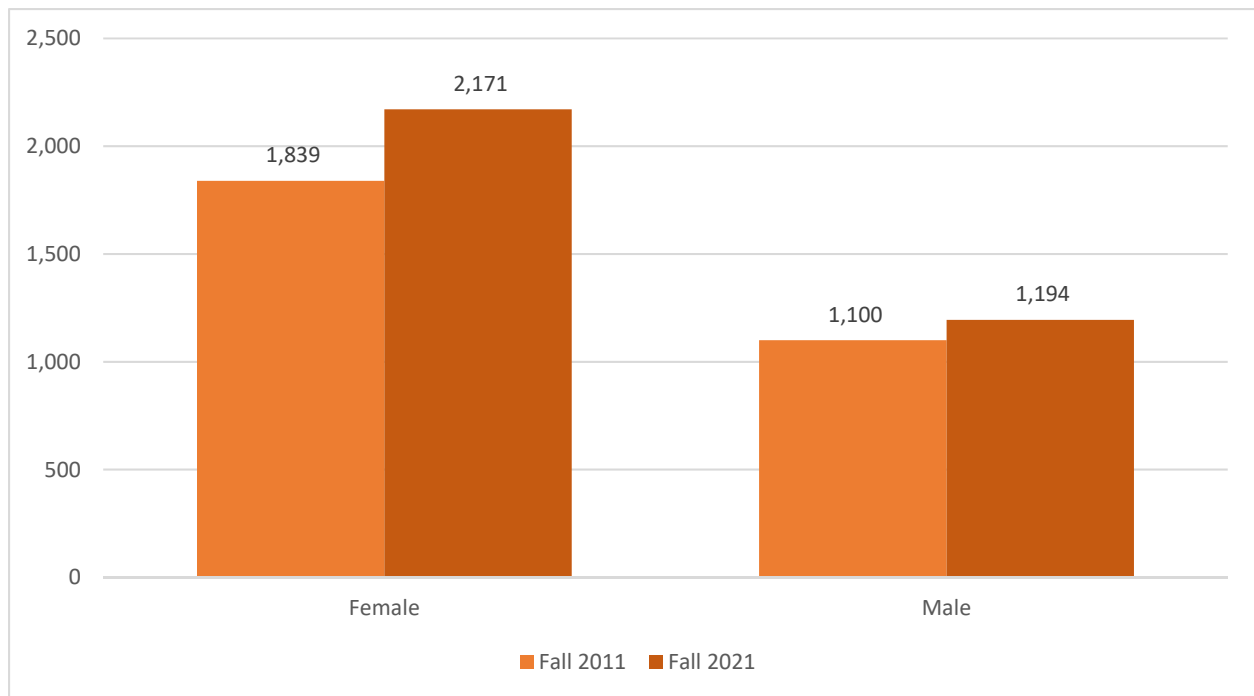
Source: <https://datamart.cccco.edu/Students>

Chart 37: Woodland Community College Enrollment by Ethnicity, 2011 & 2021



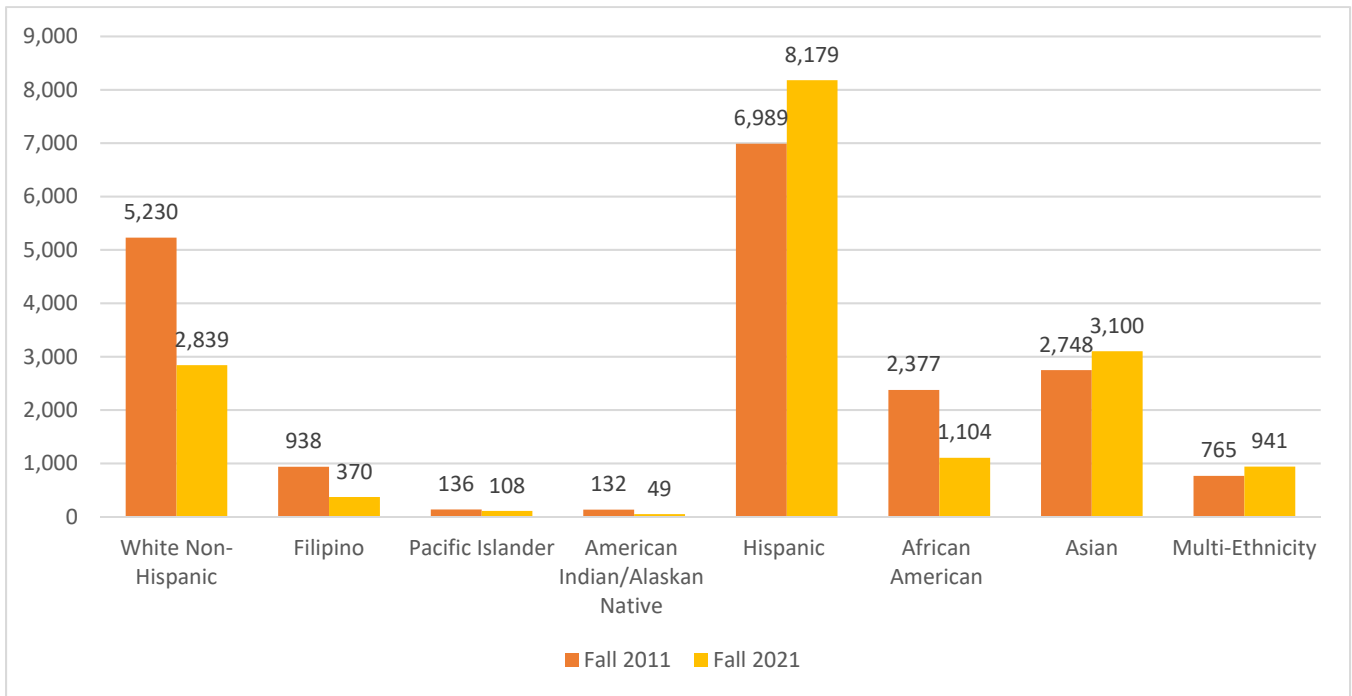
Source: <https://datamart.cccco.edu/Students>

Chart 38: Woodland Community College Enrollment by Gender, 2011 & 2021



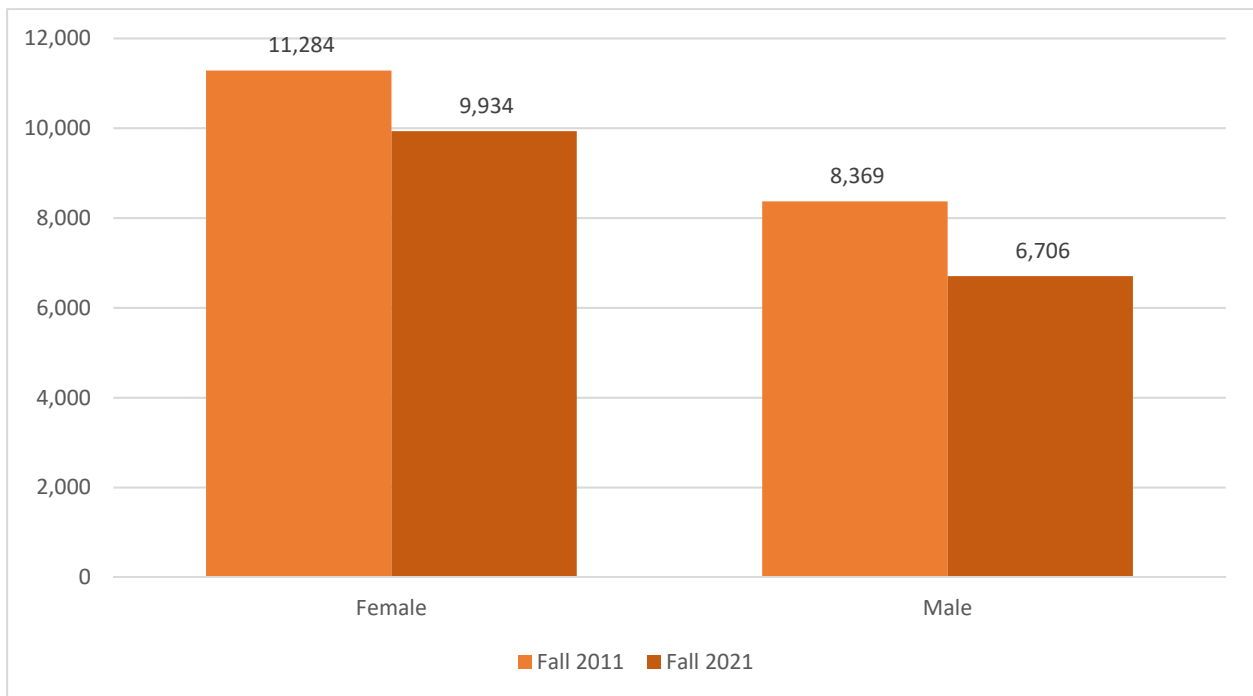
Source: <https://datamart.cccco.edu/Students>

Chart 39: San Joaquin Delta College Enrollment by Ethnicity, 2011 & 2021



Source: <https://datamart.cccco.edu/Students>

Chart 40: San Joaquin Delta College Enrollment by Gender, 2011 & 2021



Source: <https://datamart.cccco.edu/Students>

D. Degrees Awarded by Local Education Providers

This section focuses on the degrees/certificates awarded by the nine major local postsecondary education providers. This data will show the number of graduates being produced each year and from which fields. It will help identify gaps in the demand for jobs in the GSA not being met by the graduates from local postsecondary institutions. It will also help identify programs that should be enhanced or developed to meet the needs of the area.

Almost 40,000 degrees and certificates were awarded by the nine major local postsecondary education providers for 2020-2021 academic year. Table 8 shows a breakdown of level of degree by education provider.

Table 8: Breakdown of Awards by Level for Education Providers in the Sacramento Area Fall 2020-Spring 2021

Degree Level	Sac State	UCD	Sierra	ARC	CRC	FLC	SCC	WCC	SJD	Grand Total	%
Certificate	--	--	4,614	2,657	1,305	1,359	2,304	438	3,045	15,722	40%
Associate's	--	--	755	1,182	269	724	374	58	436	3,798	10%
Bachelor's	7,334	9,852	--	--	--	--	--	--	--	17,186	43%
Master's	792	1,022	--	--	--	--	--	--	--	1,814	5%
Doctoral	45	472	--	--	--	--	--	--	--	517	1%
Professional	--	561	--	--	--	--	--	--	--	561	1%
Total	8,171	11,907	5,369	3,839	1,574	2,083	2,678	496	3,481	39,598	100%

Sources: <http://datamart.cccco.edu>, <http://www.csus.edu/oir>, <https://aggiedata.ucdavis.edu/>

- The largest number of degrees/certificates were awarded at the Bachelor's level (43%), followed by Associate's (40%), Certificates (10%), Master's (5%), Professional (1%), and Doctoral (1%).
- UC Davis awarded the most degrees followed by Sacramento State, Sierra College, American River College, San Joaquin Delta, Sacramento City College, Folsom Lake College, Cosumnes River College, and Woodland Community College respectively.

Sacramento State

Sacramento State awarded 8,171 degrees in AY 2020-21. These included 7,334 Bachelor's degrees in 67 programs, 792 Master's degrees in 57 programs, and 45 Doctoral degrees in 5 programs.

Table 9: Summary of Programs/Concentrations and Degrees by Level
California State University, Sacramento: Fall 2020-Spring 2021

Degree Level	Programs/Concentrations	Degrees	% of Total
Bachelor's	67	7,334	89.8%
Master's	57	792	9.7%
Doctoral	5	45	0.6%
Total	129	8,171	100.0%

Source: <http://csus.edu/oir>

Tables 10-12 present the number of degrees awarded by level and by department. The tables are sorted to show the departments with the highest to lowest number of degrees for AY 2020-21.

- The area of study with the largest number of bachelor's degrees awarded was Social Sciences & Interdisciplinary Studies with 1,863 degrees.
- Health and Human Services followed Social Sciences & Interdisciplinary Studies closely with 1,606 degrees awarded. Followed by Arts & Letters (1,144), Business Administration (906), Engineering & Computer Science (838), Education (535), Natural Sciences & Mathematics (427), and Special Programs (15).
- The area of study with the largest number of Master's degrees awarded was Education with 229 degrees. Other areas with over 100 Master's Degrees awarded were Health & Human Services and Business Administration.
- Sacramento State awarded 45 Doctorate degrees. 29 in Health & Human Services and 16 in Education.

Table 10: Bachelor's Degrees Awarded
California State University, Sacramento: Fall 2020-Spring 2021

College	Degrees	% of Total
Social Sciences and Interdisciplinary Studies	1,863	25.4%
Health and Human Services	1,606	21.9%
Arts and Letters	1,144	15.6%
Business Administration	906	12.4%
Engineering and Computer Science	838	11.4%
Education	535	7.3%
Natural Sciences and Mathematics	427	5.8%
Special Programs	15	0.2%
Total	7,334	75%

Source: <http://www.csus.edu/oir>

Table 11: Master's Degrees Awarded
California State University, Sacramento: Fall 2020-Spring 2021

College	Degrees	% of Total
Education	229	28.9%
Health and Human Services	183	23.1%
Business Administration	151	19.1%
Engineering and Computer Science	92	11.6%
Social Sciences and Interdisciplinary Studies	63	8.0%
Arts and Letters	48	6.1%
Natural Sciences and Mathematics	25	3.2%
Special Programs	1	0.1%
Total	792	100%

Source: <http://www.csus.edu/oir>

Table 12: Doctorate's Degrees Awarded
California State University, Sacramento: Fall 2020-Spring 2021

College	Degrees	% of Total
Health and Human Services	29	64.4%
Education	16	35.6%
Arts and Letters	-	0.0%
Business Administration	-	0.0%
Engineering and Computer Science	-	0.0%
Natural Sciences and Mathematics	-	0.0%
Social Sciences and Interdisciplinary Studies	-	0.0%
Special Programs	-	0.0%
Total	45	100%

Source: <http://www.csus.edu/oir>

UC Davis

UC Davis awarded 11,907 degrees in AY 2020-21. These included 9,852 Bachelor’s degrees in 109 programs, 1,022 Master’s degrees in 99 programs, 472 Doctoral degrees in 48 programs, and 561 Professional degrees in 7 programs.

Table 13: Summary of Programs and Degrees by Level
UC Davis: Fall 2020-Spring 2021

Degree Level	Programs	Degrees	% of Total
Bachelor's	109	9,852	83%
Master's	99	1,022	9%
Doctoral	48	472	4%
Professional	7	561	5%
Total	263	11,907	100%

Source: <https://www.ucdavis.edu/majors>

Tables 14-17 present the number of degrees awarded by level and by department. The tables are sorted to show the departments with the highest to lowest number of degrees for AY 2020-21.

- The area of study with the largest number of Bachelor’s degrees awarded was the College of Letters & Sciences with 4,815 degrees.
- The College of Agriculture & Environmental Sciences followed with 2,335 degrees awarded. Third was the College of Biological Sciences (1,369) and last was the College of Engineering (1,333).
- The area of study with the largest number of Master’s degrees awarded was the College of Engineering with 269 degrees. Other areas to award Master’s Degrees were Letters and Sciences (201), Agricultural & Environmental Sciences (162), Nursing (155), Education (100), Medicine (54), Law (34), Graduate Studies (19), Biological Sciences (15), and Veterinary Medicine (13).
- UC Davis awarded 472 Doctorate degrees. 163 in the College of Letters and Sciences, followed by Agricultural & Environmental Sciences (117), Engineering (89), Biological Sciences (51), Veterinary Medicine (19), Education (16), Medicine (11), and Nursing (6).
- There were also 561 Professional Degrees awarded. The highest number awarded was 201 in the School of Law. Other areas where degrees were awarded were Veterinary Medicine (135), Graduate School of Management (120), and Medicine (105).

Table 14: Bachelor's Degrees Awarded
UC Davis: Fall 2020-Spring 2021

College	Degrees	% of Total
College of Letters and Sciences	4,815	48.9%
College of Agricultural & Environmental Sciences	2,335	23.7%
College of Biological Sciences	1,369	13.9%
College of Engineering	1,333	13.5%
Total	9,852	100%

Source: <http://budget.ucdavis.edu>

Table 15: Master's Degrees Awarded
UC Davis: Fall 2020-Spring 2021

College	Degrees	% of Total
College of Engineering	269	26.3%
College of Letters and Sciences	201	19.7%
College of Agricultural & Environmental Sciences	162	15.9%
School of Nursing	155	15.2%
School of Education	100	9.8%
School of Medicine	54	5.3%
School of Law	34	3.3%
Graduate Studies	19	1.9%
College of Biological Sciences	15	1.5%
School of Veterinary Medicine	13	1.3%
School of Management	0	0.0%
Total	1,022	100%

Source: <http://budget.ucdavis.edu>

Table 16: Doctorate's Degrees Awarded
UC Davis: Fall 2020-Spring 2021

College	Degrees	% of Total
College of Letters and Sciences	163	34.5%
College of Agricultural & Environmental Sciences	117	24.8%
College of Engineering	89	18.9%
College of Biological Sciences	51	10.8%
School of Veterinary Medicine	19	4.0%
School of Education	16	3.4%
School of Medicine	11	2.3%
School of Nursing	6	1.3%
Total	472	100%

Source: <http://budget.ucdavis.edu>

Table 17: Professional Degrees Awarded
UC Davis: Fall 2020-Spring 2021

College	Degrees	% of Total
School of Law	201	35.8%
School of Veterinary Medicine	135	24.1%
Graduate School of Management	120	21.4%
School of Medicine	105	18.7%
Total	561	100%

Source: <http://budget.ucdavis.edu>

Sierra College

Sierra College awarded 5,369 degrees in AY 2020-21. These included 4,614 Associate’s degrees in 68 programs, and 755 Certificates in 27 programs.

Table 18: Summary of Programs and Degrees by Level
Sierra College: Fall 2020-Spring 2021

Degree Level	Programs	Degrees	% of Total
Associate's	68	4,614	86%
Certificates	27	755	14%
Total	95	5,369	100%

Source: <http://californiacommunitycolleges.cccco.edu>

Tables 19 and 20 present the number of degrees and certificates awarded by level and by department. The tables are sorted to show the departments with the highest to lowest number of degrees for AY 2020-21.

- The area of study with the largest number of certificates awarded was Health with 358 certificates.
- Other areas with more than 100 certificates awarded were Business and Management (156) and Public and Protective Services (123).
- The area of study with the largest number of Associate’s degrees awarded was Social Sciences with 1,125 degrees awarded.
- Other areas with more than 100 Associate’s degrees awarded were Interdisciplinary Studies (958), Health (626), Business and Management (497), Psychology (439), Public and Protective Services (213), Humanities (131), Fine and Applied Arts (123), and Biological Sciences (103).

Table 19: Certificates Awarded
Sierra College: Fall 2020-Spring 2021

Program	Certificates	% of Total
Health	358	47.4%
Business and Management	156	20.7%
Public and Protective Services	123	16.3%
Education	25	3.3%
Information Technology	22	2.9%
Agriculture and Natural Resources	18	2.4%
Fine and Applied Arts	18	2.4%
Engineering and Industrial Technologies	17	2.3%
Family and Consumer Sciences	10	1.3%
Media and Communications	8	1.1%
Environmental Sciences and Technologies	0	0.0%
Interdisciplinary Studies	0	0.0%
Social Sciences	0	0.0%
Total	755	100%

Source: <http://datamart.cccco.edu>

Table 20: Associate's Degrees Awarded
Sierra College: Fall 2020-Spring 2021

Program	Degrees	% of Total
Social Sciences	1,125	24.4%
Interdisciplinary Studies	958	20.8%
Health	626	13.6%
Business and Management	497	10.8%
Psychology	439	9.5%
Public and Protective Services	213	4.6%
Humanities	131	2.8%
Fine and Applied Arts	123	2.7%
Biological Sciences	103	2.2%
Mathematics	85	1.8%
Information Technology	75	1.6%
Family and Consumer Sciences	47	1.0%
Engineering and Industrial Technologies	40	0.9%
Education	35	0.8%
Media and Communications	34	0.7%
Foreign Language	25	0.5%
Physical Sciences	22	0.5%
Agriculture and Natural Resources	18	0.4%
Environmental Sciences and Technologies	18	0.4%
Total	4,614	100%

Source: <http://datamart.cccco.edu>

American River College

American River College awarded 3,839 degrees in AY 2020-21. These included 2,657 Associate’s degrees in 85 programs, and 1,182 Certificates in 58 programs.

Table 21: Summary of Programs and Degrees by Level
American River College: Fall 2020-Spring 2021

Degree Level	Programs	Degrees	% of Total
Associate’s	85	2,657	69%
Certificates	58	1,182	31%
Total	143	3,839	100%

Source: <http://californiacommunitycolleges.cccco.edu>

Tables 22 and 23 present the number of degrees and certificates awarded by level and by department. The tables are sorted to show the departments with the highest to lowest number of degrees for AY 2020-21.

- The area of study with the largest number of certificates awarded was Interdisciplinary Studies with 733 certificates.
- Other areas with more than 50 certificates awarded were Family and Consumer Sciences (124) and Engineering and Industrial Technologies (99).
- The area of study with the largest number of Associate’s degrees awarded was Social Sciences with 632 degrees awarded.
- Other areas with more than 100 Associate’s degrees awarded were Business and Management (385), Interdisciplinary Studies (355), Psychology (197), Physical Sciences (149), Health (149), Public and Protective Services (120), Information Technology (105), and Family and Consumer Sciences (100).

Table 22: Certificates Awarded
American River College: Fall 2020-Spring 2021

Program	Certificates	% of Total
Interdisciplinary Studies	733	62.0%
Family and Consumer Sciences	124	10.5%
Engineering and Industrial Technologies	99	8.4%
Business and Management	67	5.7%
Law	31	2.6%
Fine and Applied Arts	23	1.9%
Information Technology	23	1.9%
Public and Protective Services	22	1.9%
Health	17	1.4%
Media and Communications	17	1.4%
Education	12	1.0%
Agriculture and Natural Resources	7	0.6%
Social Sciences	7	0.6%
Biological Sciences	0	0.0%
Total	1,182	100%

Source: <http://datamart.cccco.edu>

Table 23: Associate’s Degrees Awarded
American River College: Fall 2020-Spring 2021

Program	Degrees	% of Total
Social Sciences	632	23.8%
Business and Management	385	14.5%
Interdisciplinary Studies	355	13.4%
Psychology	197	7.4%
Physical Sciences	149	5.6%
Health	149	5.6%
Public and Protective Services	120	4.5%
Information Technology	105	4.0%
Family and Consumer Sciences	100	3.8%
Engineering and Industrial Technologies	76	2.9%
Foreign Language	75	2.8%
Fine and Applied Arts	63	2.4%
Humanities	57	2.1%
Mathematics	42	1.6%
Education	38	1.4%
Law	38	1.4%
Biological Sciences	28	1.1%
Agriculture and Natural Resources	25	0.9%
Media and Communications	23	0.9%
Total	2,657	100%

Source: <http://datamart.cccco.edu>

Cosumnes River College

Cosumnes River College awarded 1,574 degrees in AY 2020-21. These included 1,305 Associate’s degrees in 69 programs, and 269 Certificates in 38 programs.

Table 24: Summary of Programs and Degrees by Level
Cosumnes River College: Fall 2020-Spring 2021

Degree Level	Programs	Degrees	% of Total
Associate's	69	1,305	83%
Certificates	38	269	17%
Total	107	1,574	100%

Source: <http://californiacommunitycolleges.cccco.edu>

Tables 25 and 26 present the number of degrees and certificates awarded by level and by department. The tables are sorted to show the departments with the highest to lowest number of degrees for AY 2020-21.

- The area of study with the largest number of certificates awarded was Business and Management with 65 certificates.
- Other areas with more than 25 certificates awarded were Family and Consumer Sciences (64), Information Technology (51), and Health (39).
- The area of study with the largest number of Associate’s degrees awarded was Interdisciplinary Studies with 315 degrees awarded.
- Other areas with more than 50 Associate’s degrees awarded were Business and Management (308), Social Sciences (143), Psychology (76), Health (70), Humanities (62), and Information Technology (55).

Table 25: Certificates Awarded
Cosumnes River College: Fall 2020-Spring 2021

Program	Certificates	% of Total
Business and Management	65	24.2%
Family and Consumer Sciences	64	23.8%
Information Technology	51	19.0%
Health	39	14.5%
Interdisciplinary Studies	12	4.5%
Engineering and Industrial Technologies	12	4.5%
Architecture and Related Technologies	9	3.3%
Social Sciences	5	1.9%
Public and Protective Services	4	1.5%
Media and Communications	4	1.5%
Humanities	3	1.1%
Fine and Applied Arts	1	0.4%
Agriculture and Natural Resources	0	0.0%
Total	269	100%

Source: <http://datamart.cccco.edu>

Table 26: Associate’s Degrees Awarded
Cosumnes River College: Fall 2020-Spring 2021

Program	Degrees	% of Total
Interdisciplinary Studies	315	24.1%
Business and Management	308	23.6%
Social Sciences	143	11.0%
Psychology	76	5.8%
Health	70	5.4%
Humanities	62	4.8%
Information Technology	55	4.2%
Biological Sciences	47	3.6%
Media and Communications	45	3.4%
Family and Consumer Sciences	43	3.3%
Mathematics	29	2.2%
Fine and Applied Arts	26	2.0%
Education	25	1.9%
Public and Protective Services	17	1.3%
Engineering and Industrial Technologies	13	1.0%
Architecture and Related Technologies	11	0.8%
Physical Sciences	8	0.6%
Agriculture and Natural Resources	7	0.5%
Environmental Sciences and Technologies	3	0.2%
Foreign Language	2	0.2%
Total	1,305	100%

Source: <http://datamart.cccco.edu>

Folsom Lake College

Folsom Lake College awarded 2,083 degrees in AY 2020-21. These included 1,359 Associate’s degrees in 40 programs, and 724 Certificates in 15 programs.

Table 27: Summary of Programs and Degrees by Level
Folsom Lake College: Fall 2020-Spring 2021

Degree Level	Programs	Degrees	% of Total
Associate's	40	1,359	65%
Certificates	15	724	35%
Total	55	2,083	100%

Source: <http://californiacommunitycolleges.cccco.edu>

Tables 28 and 29 present the number of degrees and certificates awarded by level and by department. The tables are sorted to show the departments with the highest to lowest number of degrees for AY 2020-21.

- The area of study with the largest number of certificates awarded was Interdisciplinary Studies (592).
- The area of study with the largest number of Associate’s degrees awarded was Social Sciences with 407 degrees awarded.
- Other areas with more than 50 Associate’s degrees awarded were Interdisciplinary Studies (257), Business and Management (184), Health (125), Psychology (98), Humanities (85), and Public and Protective Services (58).

Table 28: Certificates Awarded
Folsom Lake College: Fall 2020-Spring 2021

Program	Certificates	% of Total
Interdisciplinary Studies	592	81.8%
Business and Management	60	8.3%
Family and Consumer Sciences	21	2.9%
Public and Protective Services	14	1.9%
Information Technology	12	1.7%
Health	10	1.4%
Mathematics	10	1.4%
Fine and Applied Arts	3	0.4%
Engineering and Industrial Technologies	2	0.3%
Social Science	0	0.0%
Total	724	100%

Source: <http://datamart.cccco.edu>

Table 29: Associate’s Degrees Awarded
Folsom Lake College: Fall 2020-Spring 2021

Program	Degrees	% of Total
Social Sciences	407	29.9%
Interdisciplinary Studies	257	18.9%
Business and Management	184	13.5%
Health	125	9.2%
Psychology	98	7.2%
Humanities	85	6.3%
Public and Protective Services	58	4.3%
Information Technology	29	2.1%
Mathematics	27	2.0%
Family and Consumer Sciences	27	2.0%
Fine and Applied Arts	23	1.7%
Physical Sciences	20	1.5%
Biological Sciences	12	0.9%
Law	6	0.4%
Engineering and Industrial Technologies	1	0.1%
Total	1,359	100%

Source: <http://datamart.cccco.edu>

Sacramento City College

Sacramento City College awarded 2,678 degrees in AY 2020-21. These included 2,304 Associate’s degrees in 76 programs and 374 Certificates in 49 programs.

Table 30: Summary of Programs and Degrees by Level
Sacramento City College: Fall 2020-Spring 2021

Degree Level	Programs	Degrees	% of Total
Associate's	76	2,304	86%
Certificates	49	374	14%
Total	125	2,678	100%

Source: <https://datamart.cccco.edu/>

Tables 31 and 32 present the number of degrees and certificates awarded by level and by department. The tables are sorted to show the departments with the highest to lowest number of degrees for AY 2020-21.

- The area of study with the largest number of certificates awarded was Engineering and Industrial Technologies with 103 certificates.
- Other areas with more than 25 certificates awarded were Information Technology (68), Commercial Services (45), Business and Management (37), Health (38), and Media and Communications (31).
- The area of study with the largest number of Associate’s degrees awarded was Interdisciplinary Studies with 757 degrees awarded.
- Other areas with more than 100 Associate’s degrees awarded were Social Sciences (321), Business and Management (253), Health (176), Psychology (163), Public and Protective Services (136), and Humanities (103).

Table 31: Certificates Awarded
Sacramento City College: Fall 2020-Spring 2021

Program	Certificates	% of Total
Engineering and Industrial Technologies	103	27.5%
Information Technology	68	18.2%
Commercial Services	45	12.0%
Business and Management	37	9.9%
Health	33	8.8%
Media and Communications	31	8.3%
Library Science	15	4.0%
Law	13	3.5%
Interdisciplinary Studies	10	2.7%
Fine and Applied Arts	7	1.9%
Family and Consumer Sciences	7	1.9%
Environmental Sciences and Technologies	3	0.8%
Public and Protective Services	2	0.5%
Education	0	0.0%
Total	374	100%

Source: <http://datamart.cccco.edu>

Table 32: Associate’s Degrees Awarded
 Sacramento City College: Fall 2020-Spring 2021

Program	Degrees	% of Total
Interdisciplinary Studies	757	32.9%
Social Sciences	321	13.9%
Business and Management	253	11.0%
Health	176	7.6%
Psychology	163	7.1%
Public and Protective Services	136	5.9%
Humanities	103	4.5%
Biological Sciences	60	2.6%
Information Technology	59	2.6%
Engineering and Industrial Technologies	50	2.2%
Family and Consumer Sciences	50	2.2%
Fine and Applied Arts	36	1.6%
Mathematics	36	1.6%
Commercial Services	35	1.5%
Media and Communications	31	1.3%
Physical Sciences	22	1.0%
Library Science	8	0.3%
Foreign Language	5	0.2%
Education	2	0.1%
Environmental Sciences and Technologies	1	0.0%
Total	2,304	100%

Source: <http://datamart.cccco.edu>

Woodland Community College

Woodland Community College awarded 496 degrees in AY 2020-21. These included 438 Associate’s degrees in 21 programs, and 58 Certificates in 10 programs.

Table 33: Summary of Programs and Degrees by Level
Woodland Community College: Fall 2020-Spring 2021

Degree Level	Programs	Degrees	% of Total
Associate's	21	438	88%
Certificates	10	58	12%
Total	31	496	100%

Source: <http://californiacommunitycolleges.cccco.edu>

Tables 34 and 35 present the number of degrees and certificates awarded by level and by department. The tables are sorted to show the departments with the highest to lowest number of degrees for AY 2020-21.

- The area of study with the largest number of certificates awarded was Family and Consumer Sciences with 42 certificates.
- Other areas that certificates were awarded were Environmental Sciences and Technologies (8), Business and Management (5), and Public and Protective Services (3).
- The area of study with the largest number of Associate’s degrees awarded was Social Sciences with 132 degrees awarded.
- Other areas with more than 50 Associate’s degrees awarded were Interdisciplinary Studies (84), Business and Management (59), and Public and Protective Services (56).

Table 34: Certificates Awarded
Woodland Community College: Fall 2020-Spring 2021

Program	Certificates	% of Total
Family and Consumer Sciences	42	72.4%
Environmental Sciences and Technologies	8	13.8%
Business and Management	5	8.6%
Public and Protective Services	3	5.2%
Agriculture and Natural Resources	0	0.0%
Total	58	100%

Source: <http://datamart.cccco.edu>

Table 35: Associate’s Degrees Awarded
Woodland Community College: Fall 2020-Spring 2021

Program	Degrees	% of Total
Social Sciences	132	30.1%
Interdisciplinary Studies	84	19.2%
Business and Management	59	13.5%
Public and Protective Services	56	12.8%
Family and Consumer Sciences	44	10.0%
Psychology	34	7.8%
Humanities	12	2.7%
Agriculture and Natural Resources	7	1.6%
Mathematics	6	1.4%
Engineering and Industrial Technologies	4	0.9%
Total	438	100%

Source: <http://datamart.cccco.edu>

San Joaquin Delta College

San Joaquin Delta College awarded 3,481 degrees in AY 2020-21. These included 3,045 Associate’s degrees in 67 programs, and 436 Certificates in 48 programs.

Table 36: Summary of Programs and Degrees by Level
San Joaquin Delta College: Fall 2020-Spring 2021

Degree Level	Programs	Degrees	% of Total
Associate's	67	3,045	87%
Certificates	48	436	13%
Total	115	3,481	100%

Source: <http://californiacommunitycolleges.cccco.edu>

Tables 37 and 38 present the number of degrees and certificates awarded by level and by department. The tables are sorted to show the departments with the highest to lowest number of degrees for AY 2020-21.

- The area of study with the largest number of certificates awarded was Engineering and Industrial Technologies with 106 degrees.
- Other areas with more than 50 certificates awarded were Business and Management (96), Public and Protective Services (64), and Health (51).
- The area of study with the largest number of Associate’s degrees awarded was Interdisciplinary Studies with 1,583 degrees awarded.
- Other areas with more than 100 Associate’s degrees awarded were Business and Management (367), Health (244), Psychology (236), Public and Protective Services (129), and Family and Consumer Sciences (110).

Table 37: Certificates Awarded
San Joaquin Delta College: Fall 2020-Spring 2021

Program	Certificates	% of Total
Engineering and Industrial Technologies	106	24.3%
Business and Management	96	22.0%
Public and Protective Services	64	14.7%
Health	51	11.7%
Family and Consumer Sciences	50	11.5%
Law	28	6.4%
Information Technology	20	4.6%
Interdisciplinary Studies	11	2.5%
Education	7	1.6%
Agriculture and Natural Resources	2	0.5%
Architecture and Related Technologies	1	0.2%
Fine and Applied Arts	0	0.0%
Media and Communications	0	0.0%
Total	436	100%

Source: <http://datamart.cccco.edu>

Table 38: Associate’s Degrees Awarded
San Joaquin Delta College: Fall 2020-Spring 2021

Program	Degrees	% of Total
Interdisciplinary Studies	1,583	52.0%
Business and Management	367	12.1%
Health	244	8.0%
Psychology	236	7.8%
Public and Protective Services	129	4.2%
Family and Consumer Sciences	110	3.6%
Foreign Language	79	2.6%
Engineering and Industrial Technologies	65	2.1%
Humanities	50	1.6%
Information Technology	44	1.4%
Fine and Applied Arts	34	1.1%
Mathematics	34	1.1%
Social Sciences	32	1.1%
Media and Communications	13	0.4%
Physical Sciences	10	0.3%
Education	6	0.2%
Law	4	0.1%
Agriculture and Natural Resources	3	0.1%
Architecture and Related Technologies	2	0.1%
Total	3,045	100%

Source: http://datamart.cccco.edu/Outcomes/Program_Awards.aspx

E. Programs Offered at Sacramento State

Sacramento State offers 61 programs at the Bachelor's level, 55 at the Master's level, and 5 at the Doctoral level. Table 39 shows the program listing by college.

Table 39: List of Programs offered at Sacramento State

Program	College	Bachelor's	Master's	Doctoral
Art	Art and Letters	X	X	
Art: Pre-Credential Preparation	Art and Letters	X		
Communications	Art and Letters	X	X	
Dance	Art and Letters	X		
English	Art and Letters	X	X	
Film	Art and Letters	X		
French	Art and Letters	X		
Graphic Design	Arts and Letters	X		
History	Art and Letters	X		
Humanities	Arts and Letters		X	
Humanities and Religious Studies	Art and Letters	X		
Interior Design	Art and Letters	X		
Journalism	Art and Letters	X		
Music	Art and Letters	X	X	
Philosophy	Art and Letters	X		
Photography	Art and Letters	X		
Political Science/Journalism	Art and Letters	X		
Public History	Arts and Letters		X	X
Spanish	Art and Letters	X	X	
Teaching English to Speakers of Other Languages(TESOL)	Art and Letters		X	
Theatre	Art and Letters	X		
Accountancy	Business Administration		X	
Business Administration	Business Administration	X		
Business Administration(International)	Business Administration		X	
Business General	Business Administration		X	
Executive Degree(EMBA)	Business Administration		X	
Management Information Systems(MSBA)	Business Administration		X	
Masters and Juris Doctoral Program ₁	Business Administration		X	X
Masters Program ₂	Business Administration		X	
Taxation(MSBA)	Business Administration		X	
Behavioral Sciences Gender Equality	Education		X	
Career and Technical Studies	Education	X		
Child Development	Education	X		
Child Development	Education		X	
Counseling - Career Counseling	Education		X	
Counseling - Community Counseling	Education		X	
Counseling - Marriage in Family & Child Counseling	Education		X	
Counseling - School Counseling	Education		X	
Counseling - Vocational Rehabilitation	Education		X	
Curriculum and Instruction	Education		X	
Deaf Studies	Education	X		
Education Leadership	Education		X	
Educational Leadership	Education			X
Educational Technology	Education		X	
Higher Education Leadership	Education		X	

Source: Sacramento State 2020-2021 Course Catalog

(Continued on next page)

Table 39: List of Programs offered at Sacramento State

Program	College	Bachelor's	Master's	Doctoral
Multicultural Education	Education		X	
School Psychology	Education			X
Special Education	Education		X	
Workforce Development Advocacy	Education		X	
Civil Engineering	Engineering and Computer Science	X	X	
Computer Engineering	Engineering and Computer Science	X	X	
Computer Science	Engineering and Computer Science	X	X	
Construction Management, Business Administration	Engineering and Computer Science	X		
Electrical and Electric Engineering	Engineering and Computer Science	X	X	
Mechanical Engineering	Engineering and Computer Science	X	X	
Software Engineering	Engineering and Computer Science		X	
Communication Sciences and Disorders	Health & Human Services	X	X	
Criminal Justice	Health & Human Services	X	X	
Health Science	Health & Human Services	X		
Kinesiology	Health & Human Services	X	X	
Nursing	Health & Human Services	X	X	
Physical Therapy	Health & Human Services			X
Recreation Administration	Health & Human Services	X	X	
RN to BSN(Nursing)	Health & Human Services	X		
Social Work	Health & Human Services	X	X	
Biological Sciences	Natural Science and Mathematics	X	X	
Biological Sciences Subject Matter Program(Pre-Credential)	Natural Science and Mathematics	X		
Chemistry	Natural Science and Mathematics	X	X	
Earth Sciences	Natural Science and Mathematics	X		
Geography	Natural Science and Mathematics	X		
Geology	Natural Science and Mathematics	X	X	
Integrated Mathematics Major/Single Subject Credential	Natural Science and Mathematics	X		
Marine Sciences	Natural Science and Mathematics		X	
Mathematics	Natural Science and Mathematics	X	X	
Physics	Natural Science and Mathematics	X		
Special Major	Office of Academic Affairs	X	X	
Anthropology	Social Science and Interdisciplinary Studies	X	X	
Asian Studies	Social Science and Interdisciplinary Studies	X		
Economics	Social Science and Interdisciplinary Studies	X	X	
Environmental Studies	Social Science and Interdisciplinary Studies	X		
Ethnic Studies	Social Science and Interdisciplinary Studies	X		
Family and Consumer Science	Social Science and Interdisciplinary Studies	X		
Fashion Merchandising and Management	Social Science and Interdisciplinary Studies	X		
Gerontology	Social Science and Interdisciplinary Studies	X		
Liberal Studies	Social Science and Interdisciplinary Studies	X		
Nutrition and Food	Social Science and Interdisciplinary Studies	X		
Political Science	Social Science and Interdisciplinary Studies	X	X	
Psychology	Social Science and Interdisciplinary Studies	X	X	
Public Policy and Administration	Social Science and Interdisciplinary Studies		X	
Social Science	Social Science and Interdisciplinary Studies	X		
Sociology	Social Science and Interdisciplinary Studies	X	X	
Urban Land Development	Social Science and Interdisciplinary Studies		X	
Women's Studies	Social Science and Interdisciplinary Studies	X		

¹ An arrangement between the College of Business Administration & the University of the Pacific McGeorge School of Law allows a student to earn credits toward an MBA degree and a juris doctor (JD) degree concurrently.

² A student may concurrently earn the MS/ACCY from Sacramento State and the MBA from Sacramento State.

IV. Program Areas at Sacramento State and Local Demand in the Greater Sacramento Area

This section builds on the employment and occupation data reported in earlier sections. The following table’s present data concerning annual average job openings by preferred education. The data is first broken down by annual job openings by job preferred education from 2018-2028 for the GSA, followed by tables revealing occupations requiring a doctoral, master, bachelor, associate, or professional degree along with occupations requiring a high school diploma.

A. Occupational Demand by Preferred Education

According to the State of California Employment Development Department, over 133,000 annual job openings will be available from 2018-2028. Of these jobs, 21% require a Bachelor’s Degree or higher.

Table 40: Annual Average Job Openings by Preferred Education
El Dorado, Placer, Sacramento, and Yolo Counties 2018-2028

Preferred Education	# of Annual Avg. Job Openings	% of Total
Doctoral or Professional Degree	1,323	1%
Master's Degree	1,729	1%
Bachelor's Degree	25,498	19%
Associate's Degree	2,329	2%
Some College, No Degree	2,813	2%
Postsecondary Non-Degree Award	7,078	5%
No Formal Education Credential	43,897	33%
High School Diploma or Equivalent	48,917	37%
Total	133,584	100%

Source: State of California Employment Development Department

Table 41 shows the average number of positions requiring a doctoral degree. Lawyers will have 366 openings annually from 2018-2028. Additionally, Clinical, Counseling, and School Psychologists also have high average job openings.

Table 41: Occupations Requiring Doctoral Degree by Annual Average Job Openings in El Dorado, Placer, Sacramento, and Yolo Counties 2018-2028

SOC Code	Occupational Title	Preferred Education	Total Annual Avg. Job Openings
23-1011	Lawyers	Doctoral or professional degree	366
19-3031	Clinical, Counseling, and School Psychologists	Doctoral or professional degree	123
29-1051	Pharmacists	Doctoral or professional degree	100
29-1123	Physical Therapists	Doctoral or professional degree	87
19-1042	Medical Scientists, Except Epidemiologists	Doctoral or professional degree	84
29-1069	Physicians and Surgeons, All Other	Doctoral or professional degree	71
25-1123	English Language and Literature Teachers, Postsecondary	Doctoral or professional degree	57
29-1021	Dentists, General	Doctoral or professional degree	36
25-1042	Biological Science Teachers, Postsecondary	Doctoral or professional degree	35
29-1131	Veterinarians	Doctoral or professional degree	35
25-1022	Mathematical Science Teachers, Postsecondary	Doctoral or professional degree	34
29-1062	Family and General Practitioners	Doctoral or professional degree	31
25-1032	Engineering Teachers, Postsecondary	Doctoral or professional degree	24
25-1112	Law Teachers, Postsecondary	Doctoral or professional degree	23
25-1011	Business Teachers, Postsecondary	Doctoral or professional degree	22
25-1124	Foreign Language and Literature Teachers, Postsecondary	Doctoral or professional degree	22
25-1021	Computer Science Teachers, Postsecondary	Doctoral or professional degree	20
25-1066	Psychology Teachers, Postsecondary	Doctoral or professional degree	19
25-1054	Physics Teachers, Postsecondary	Doctoral or professional degree	15
25-1072	Nursing Instructors and Teachers, Postsecondary	Doctoral or professional degree	14
29-1041	Optometrists	Doctoral or professional degree	14
19-1021	Biochemists and Biophysicists	Doctoral or professional degree	13
25-1081	Education Teachers, Postsecondary	Doctoral or professional degree	13
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	Doctoral or professional degree	12
25-1052	Chemistry Teachers, Postsecondary	Doctoral or professional degree	12
29-1011	Chiropractors	Doctoral or professional degree	10
23-1012	Judicial Law Clerks	Doctoral or professional degree	9
25-1122	Communications Teachers, Postsecondary	Doctoral or professional degree	9
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	Doctoral or professional degree	9
23-1023	Judges, Magistrate Judges, and Magistrates	Doctoral or professional degree	4
	Total		1,323

Source: State of California Employment Development Department

ACADEMIC PROGRAM NEEDS ASSESSMENT OF THE GREATER SACRAMENTO AREA

According to Table 42, Educational, Guidance, School, and Vocational Counselors will have the highest average annual job openings from 2018-2028. Sacramento State has degrees within the College of Education that will be paramount in helping to fill these positions.

Table 42: Occupations Requiring Master's Degree by Annual Average Job Openings in El Dorado, Placer, Sacramento, and Yolo Counties 2018-2028

SOC Code	Occupational Title	Preferred Education	Total Annual Avg. Job Openings
21-1012	Educational, Guidance, School, and Vocational Counselors	Master's degree	282
21-1022	Healthcare Social Workers	Master's degree	163
25-9031	Instructional Coordinators	Master's degree	123
15-2041	Statisticians	Master's degree	118
21-1013	Marriage and Family Therapists	Master's degree	117
21-1023	Mental Health and Substance Abuse Social Workers	Master's degree	114
11-9032	Education Administrators, Elementary and Secondary School	Master's degree	112
29-1171	Nurse Practitioners	Master's degree	81
29-1071	Physician Assistants	Master's degree	74
19-3051	Urban and Regional Planners	Master's degree	73
29-1127	Speech-Language Pathologists	Master's degree	73
21-1015	Rehabilitation Counselors	Master's degree	71
25-4021	Librarians	Master's degree	58
19-3091	Anthropologists and Archeologists	Master's degree	44
21-1019	Counselors, All Other	Master's degree	42
15-1111	Computer and Information Research Scientists	Master's degree	34
25-1121	Art, Drama, and Music Teachers, Postsecondary	Master's degree	34
29-1122	Occupational Therapists	Master's degree	31
29-1199	Health Diagnosing and Treating Practitioners, All Other	Master's degree	20
19-3011	Economists	Master's degree	15
19-3041	Sociologists	Master's degree	14
19-1041	Epidemiologists	Master's degree	13
29-1151	Nurse Anesthetists	Master's degree	12
19-3039	Psychologists, All Other	Master's degree	11
Total			1,729

Source: State of California Employment Development Department

ACADEMIC PROGRAM NEEDS ASSESSMENT OF THE GREATER SACRAMENTO AREA

According to Table 43, Management Analysts, General and Operations Managers, and Registered Nurses are the top three occupations in the Greater Sacramento Area 2018-2028. The college of Business Administration and the college of Health and Human Services degrees will be essential to filling in these occupations.

Table 43: Occupations Requiring Bachelor's Degree by Annual Average Job Openings in El Dorado, Placer, Sacramento, and Yolo Counties 2018-2028

SOC Code	Occupational Title	Preferred Education	Total Annual Avg. Job Openings
13-1111	Management Analysts	Bachelor's degree	3,144
11-1021	General and Operations Managers	Bachelor's degree	1,448
29-1141	Registered Nurses	Bachelor's degree	1,448
13-2011	Accountants and Auditors	Bachelor's degree	1,170
13-1199	Business Operations Specialists, All Other	Bachelor's degree	1,084
25-3098	Substitute Teachers	Bachelor's degree	749
25-2021	Elementary School Teachers, Except Special Education	Bachelor's degree	690
11-9199	Managers, All Other	Bachelor's degree	675
25-3097	Teachers and Instructors, All Other, Except Substitute Teachers	Bachelor's degree	568
15-1121	Computer Systems Analysts	Bachelor's degree	552
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's degree	488
13-1161	Market Research Analysts and Marketing Specialists	Bachelor's degree	473
15-1133	Software Developers, Systems Software	Bachelor's degree	454
27-2022	Coaches and Scouts	Bachelor's degree	453
15-1132	Software Developers, Applications	Bachelor's degree	433
11-3031	Financial Managers	Bachelor's degree	411
17-2051	Civil Engineers	Bachelor's degree	395
13-1071	Human Resources Specialists	Bachelor's degree	337
11-2022	Sales Managers	Bachelor's degree	331
19-2041	Environmental Scientists and Specialists, Including Health	Bachelor's degree	296
41-3031	Securities, Commodities, and Financial Services Sales Agents	Bachelor's degree	294
13-2081	Tax Examiners and Collectors, and Revenue Agents	Bachelor's degree	281
25-1191	Graduate Teaching Assistants	Bachelor's degree	270
15-1199	Computer Occupations, All Other	Bachelor's degree	267
11-9021	Construction Managers	Bachelor's degree	263
13-2072	Loan Officers	Bachelor's degree	260
11-3021	Computer and Information Systems Managers	Bachelor's degree	249
11-9111	Medical and Health Services Managers	Bachelor's degree	239
13-1041	Compliance Officers	Bachelor's degree	227
25-2022	Middle School Teachers, Except Special and Career/Technical Education	Bachelor's degree	223
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	Bachelor's degree	214
13-1020	Buyers and Purchasing Agents	Bachelor's degree	212
11-1011	Chief Executives	Bachelor's degree	208
11-3011	Administrative Services Managers	Bachelor's degree	206
27-3031	Public Relations Specialists	Bachelor's degree	205
13-1151	Training and Development Specialists	Bachelor's degree	196
13-2051	Financial Analysts	Bachelor's degree	175
13-1141	Compensation, Benefits, and Job Analysis Specialists	Bachelor's degree	174
13-1051	Cost Estimators	Bachelor's degree	173

(Continued on next page)

Table 43: Occupations Requiring Bachelor's Degree by Annual Average Job Openings in El Dorado, Placer, Sacramento, and Yolo Counties 2018-2028

SOC Code	Occupational Title	Preferred Education	Total Annual Avg. Job Openings
27-3091	Interpreters and Translators	Bachelor's degree	158
25-9099	Education, Training, and Library Workers, All Other	Bachelor's degree	155
11-2021	Marketing Managers	Bachelor's degree	145
21-1021	Child, Family, and School Social Workers	Bachelor's degree	142
29-2010	Clinical Laboratory Technologists and Technicians	Bachelor's degree	133
13-1121	Meeting, Convention, and Event Planners	Bachelor's degree	126
15-1142	Network and Computer Systems Administrators	Bachelor's degree	126
27-1024	Graphic Designers	Bachelor's degree	126
17-2061	Computer Hardware Engineers	Bachelor's degree	124
15-1131	Computer Programmers	Bachelor's degree	123
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	Bachelor's degree	123
17-2081	Environmental Engineers	Bachelor's degree	119
11-9041	Architectural and Engineering Managers	Bachelor's degree	117
13-2052	Personal Financial Advisors	Bachelor's degree	109
21-1029	Social Workers, All Other	Bachelor's degree	107
17-2071	Electrical Engineers	Bachelor's degree	105
21-1099	Community and Social Service Specialists, All Other	Bachelor's degree	104
21-1092	Probation Officers and Correctional Treatment Specialists	Bachelor's degree	102
13-2099	Financial Specialists, All Other	Bachelor's degree	95
19-4021	Biological Technicians	Bachelor's degree	87
11-3121	Human Resources Managers	Bachelor's degree	85
13-2053	Insurance Underwriters	Bachelor's degree	84
13-1131	Fundraisers	Bachelor's degree	81
15-2031	Operations Research Analysts	Bachelor's degree	81
17-2141	Mechanical Engineers	Bachelor's degree	80
21-2011	Clergy	Bachelor's degree	80
17-2072	Electronics Engineers, Except Computer	Bachelor's degree	79
25-2012	Kindergarten Teachers, Except Special Education	Bachelor's degree	77
27-1025	Interior Designers	Bachelor's degree	77
21-2021	Directors, Religious Activities and Education	Bachelor's degree	74
13-2021	Appraisers and Assessors of Real Estate	Bachelor's degree	73
17-1011	Architects, Except Landscape and Naval	Bachelor's degree	73
27-2012	Producers and Directors	Bachelor's degree	73

(Continued on next page)

Table 43: Occupations Requiring Bachelor's Degree by Annual Average Job Openings in El Dorado, Placer, Sacramento, and Yolo Counties 2018-2028

SOC Code	Occupational Title	Preferred Education	Total Annual Avg. Job Openings
19-1029	Biological Scientists, All Other	Bachelor's degree	72
19-1013	Soil and Plant Scientists	Bachelor's degree	70
21-1091	Health Educators	Bachelor's degree	65
25-2052	Special Education Teachers, Kindergarten and Elementary School	Bachelor's degree	64
19-3099	Social Scientists and Related Workers, All Other	Bachelor's degree	62
13-2031	Budget Analysts	Bachelor's degree	61
17-2199	Engineers, All Other	Bachelor's degree	61
13-1081	Logisticians	Bachelor's degree	58
19-1023	Zoologists and Wildlife Biologists	Bachelor's degree	53
27-3043	Writers and Authors	Bachelor's degree	52
15-1143	Computer Network Architects	Bachelor's degree	51
11-9121	Natural Sciences Managers	Bachelor's degree	49
15-1141	Database Administrators	Bachelor's degree	49
13-1075	Labor Relations Specialists	Bachelor's degree	48
19-2031	Chemists	Bachelor's degree	48
41-9031	Sales Engineers	Bachelor's degree	48
11-2031	Public Relations and Fundraising Managers	Bachelor's degree	47
17-2112	Industrial Engineers	Bachelor's degree	47
19-2042	Geoscientists, Except Hydrologists and Geographers	Bachelor's degree	47
11-3051	Industrial Production Managers	Bachelor's degree	46
25-1194	Vocational Education Teachers, Postsecondary	Bachelor's degree	46
11-9031	Education Administrators, Preschool and Childcare Center/Program	Bachelor's degree	45
27-1014	Multimedia Artists and Animators	Bachelor's degree	45
25-2054	Special Education Teachers, Secondary School	Bachelor's degree	43
29-9011	Occupational Health and Safety Specialists	Bachelor's degree	42
29-1031	Dietitians and Nutritionists	Bachelor's degree	41
19-1031	Conservation Scientists	Bachelor's degree	39
19-1012	Food Scientists and Technologists	Bachelor's degree	38
17-1022	Surveyors	Bachelor's degree	37
27-3041	Editors	Bachelor's degree	35
11-9039	Education Administrators, All Other	Bachelor's degree	34
27-1011	Art Directors	Bachelor's degree	32
29-1129	Therapists, All Other	Bachelor's degree	31
27-2041	Music Directors and Composers	Bachelor's degree	30
13-2041	Credit Analysts	Bachelor's degree	29
19-1099	Life Scientists, All Other	Bachelor's degree	29

(Continued on next page)

Table 43: Occupations Requiring Bachelor's Degree by Annual Average Job Openings in El Dorado, Placer, Sacramento, and Yolo Counties 2018-2028

SOC Code	Occupational Title	Preferred Education	Total Annual Avg. Job Openings
11-3061	Purchasing Managers	Bachelor's degree	27
15-1122	Information Security Analysts	Bachelor's degree	26
13-2061	Financial Examiners	Bachelor's degree	22
13-2071	Credit Counselors	Bachelor's degree	22
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	Bachelor's degree	22
27-3011	Radio and Television Announcers	Bachelor's degree	21
19-1022	Microbiologists	Bachelor's degree	20
19-2043	Hydrologists	Bachelor's degree	20
27-3042	Technical Writers	Bachelor's degree	20
45-2011	Agricultural Inspectors	Bachelor's degree	18
11-1031	Legislators	Bachelor's degree	17
11-3131	Training and Development Managers	Bachelor's degree	17
17-1012	Landscape Architects	Bachelor's degree	17
17-2031	Biomedical Engineers	Bachelor's degree	16
21-2099	Religious Workers, All Other	Bachelor's degree	16
27-3022	Reporters and Correspondents	Bachelor's degree	16
11-9161	Emergency Management Directors	Bachelor's degree	15
19-2099	Physical Scientists, All Other	Bachelor's degree	13
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	Bachelor's degree	11
17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	Bachelor's degree	11
27-1029	Designers, All Other	Bachelor's degree	11
27-4032	Film and Video Editors	Bachelor's degree	11
11-2011	Advertising and Promotions Managers	Bachelor's degree	10
11-3111	Compensation and Benefits Managers	Bachelor's degree	10
17-2041	Chemical Engineers	Bachelor's degree	10
15-2011	Actuaries	Bachelor's degree	7
	Total		25,498

Source: State of California Employment Development Department

ACADEMIC PROGRAM NEEDS ASSESSMENT OF THE GREATER SACRAMENTO AREA

According to Table 44, Preschool teachers, Except Special Education, Paralegals & Legal Assistants, and Electrical and Electronics Engineering Technicians will have the highest average annual job openings from 2018-2028 that require an Associate’s Degree.

Table 44: Occupations Requiring Associate's Degree by Annual Average Job Openings in El Dorado, Placer, Sacramento, and Yolo Counties 2018-2028

SOC Code	Occupational Title	Preferred Education	Total Annual Avg. Job Openings
25-2011	Preschool Teachers, Except Special Education	Associate's degree	373
23-2011	Paralegals and Legal Assistants	Associate's degree	216
17-3023	Electrical and Electronics Engineering Technicians	Associate's degree	154
29-2021	Dental Hygienists	Associate's degree	137
19-4011	Agricultural and Food Science Technicians	Associate's degree	116
17-3011	Architectural and Civil Drafters	Associate's degree	91
29-1126	Respiratory Therapists	Associate's degree	86
29-2034	Radiologic Technologists	Associate's degree	84
29-2056	Veterinary Technologists and Technicians	Associate's degree	83
31-2021	Physical Therapist Assistants	Associate's degree	83
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	Associate's degree	83
15-1152	Computer Network Support Specialists	Associate's degree	79
19-4091	Environmental Science and Protection Technicians, Including Health	Associate's degree	74
19-4093	Forest and Conservation Technicians	Associate's degree	73
15-1134	Web Developers	Associate's degree	61
17-3022	Civil Engineering Technicians	Associate's degree	58
17-3029	Engineering Technicians, Except Drafters, All Other	Associate's degree	53
29-2032	Diagnostic Medical Sonographers	Associate's degree	47
19-4099	Life, Physical, and Social Science Technicians, All Other	Associate's degree	46
49-9062	Medical Equipment Repairers	Associate's degree	44
31-2011	Occupational Therapy Assistants	Associate's degree	30
23-2099	Legal Support Workers, All Other	Associate's degree	29
53-2021	Air Traffic Controllers	Associate's degree	27
19-4031	Chemical Technicians	Associate's degree	25
17-3025	Environmental Engineering Technicians	Associate's degree	24
17-3013	Mechanical Drafters	Associate's degree	23
27-4012	Broadcast Technicians	Associate's degree	23
29-2031	Cardiovascular Technologists and Technicians	Associate's degree	23
29-2035	Magnetic Resonance Imaging Technologists	Associate's degree	21
29-2051	Dietetic Technicians	Associate's degree	18
17-3012	Electrical and Electronics Drafters	Associate's degree	17
17-3026	Industrial Engineering Technicians	Associate's degree	17
43-9031	Desktop Publishers	Associate's degree	11
	Total		2,329

Source: State of California Employment Development Department

ACADEMIC PROGRAM NEEDS ASSESSMENT OF THE GREATER SACRAMENTO AREA

Table 45 shows that Heavy and Tractor-Trailer Truck Drivers and Medical Assistants will have the highest average annual job openings from 2018-2028 that require a Postsecondary, non-degree education.

Table 45: Occupations Requiring Postsecondary, non-degree Award by Annual Average Job Openings in El Dorado, Placer, Sacramento, and Yolo Counties 2018-2028

SOC Code	Occupational Title	Preferred Education	Total Annual Avg. Job Openings
53-3032	Heavy and Tractor-Trailer Truck Drivers	Postsecondary non-degree award	1,148
31-9092	Medical Assistants	Postsecondary non-degree award	977
31-1014	Nursing Assistants	Postsecondary non-degree award	767
39-5012	Hairdressers, Hairstylists, and Cosmetologists	Postsecondary non-degree award	707
49-3023	Automotive Service Technicians and Mechanics	Postsecondary non-degree award	468
31-9091	Dental Assistants	Postsecondary non-degree award	447
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	Postsecondary non-degree award	378
29-2061	Licensed Practical and Licensed Vocational Nurses	Postsecondary non-degree award	366
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	Postsecondary non-degree award	296
31-9011	Massage Therapists	Postsecondary non-degree award	232
39-5092	Manicurists and Pedicurists	Postsecondary non-degree award	227
29-2071	Medical Records and Health Information Technicians	Postsecondary non-degree award	139
33-2011	Firefighters	Postsecondary non-degree award	128
29-2099	Health Technologists and Technicians, All Other	Postsecondary non-degree award	125
31-9097	Phlebotomists	Postsecondary non-degree award	109
29-2041	Emergency Medical Technicians and Paramedics	Postsecondary non-degree award	78
29-2055	Surgical Technologists	Postsecondary non-degree award	77
25-4031	Library Technicians	Postsecondary non-degree award	69
31-9094	Medical Transcriptionists	Postsecondary non-degree award	57
39-5094	Skincare Specialists	Postsecondary non-degree award	57
27-4011	Audio and Video Equipment Technicians	Postsecondary non-degree award	41
29-2057	Ophthalmic Medical Technicians	Postsecondary non-degree award	38
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	Postsecondary non-degree award	36
13-1032	Insurance Appraisers, Auto Damage	Postsecondary non-degree award	30
49-3011	Aircraft Mechanics and Service Technicians	Postsecondary non-degree award	29
51-5111	Prepress Technicians and Workers	Postsecondary non-degree award	17
29-9099	Healthcare Practitioners and Technical Workers, All Other	Postsecondary non-degree award	13
33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	Postsecondary non-degree award	12
53-5021	Captains, Mates, and Pilots of Water Vessels	Postsecondary non-degree award	10
	Total		7,078

Source: State of California Employment Development Department

A. Crosswalk of Program Areas and Associated Demand for Occupations

This section examines a crosswalk between program areas offered at Sacramento State and the occupational demand of the Greater Sacramento Area. Only those program areas where demand is present are reported.

Table 46 shows the program area, level of education available at Sac State, number of graduates from Sac State in AY 2020-2021, associated professions, preferred education and the average annual job openings.

Table 46: Crosswalk of Program Areas and Associated Demand for Occupations

Program Name	Degrees Offered	2020-2021 Graduates	Associated Profession(s)	Preferred Education	Avg. Annual Job Openings
Arts & Letters					
Art					
Art Education	Bachelor's	11	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
			Art, Drama, and Music Teachers, Postsecondary	Master's	34
			Fine Artists, Including Painters, Sculptors, and Illustrators	Bachelor's	22
Art History	Bachelor's	8	Art, Drama, and Music Teachers, Postsecondary	Master's	34
Art Studio	Bachelor's	13	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
			Art, Drama, and Music Teachers, Postsecondary	Master's	34
			Fine Artists, Including Painters, Sculptors, and Illustrators	Bachelor's	22
Studio Art	Bachelor's	4	Art, Drama, and Music Teachers, Postsecondary	Master's	34
			Fine Artists, Including Painters, Sculptors, and Illustrators	Bachelor's	22
Studio Art Methods	Bachelor's	18	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
			Art, Drama, and Music Teachers, Postsecondary	Master's	34
			Fine Artists, Including Painters, Sculptors, and Illustrators	Bachelor's	22
Communication Studies					
Film	Bachelor's	53	Producers and Directors	Bachelor's	73
			Art, Drama, and Music Teachers, Postsecondary	Master's	34
Journalism	Bachelor's	42	Writers and Authors	Bachelor's	52
			Editors	Bachelor's	35
			Communications Teachers, Postsecondary	Doctoral	9
Design					
Graphic Design	Bachelor's	45	Graphic Designers	Bachelor's	126
			Special Effects Artists and Animators	Bachelor's	45
			Art, Drama, and Music Teachers, Postsecondary	Master's	34
			Art Directors	Bachelor's	32
Interior Architecture	Bachelor's	32	Architectural and Engineering Managers	Bachelor's	117
			Interior Designers	Bachelor's	77
Photography	Bachelor's	21	Art, Drama, and Music Teachers, Postsecondary	Master's	34
English					
Composition	Master's	4	English Language and Literature Teachers, Postsecondary	Doctoral	57
			Writers and Authors	Bachelor's	52
			Editors	Bachelor's	35
			Technical Writers	Doctoral	20
Composition, Rhetoric, and Professional Writing	Master's	1	English Language and Literature Teachers, Postsecondary	Doctoral	57
			Writers and Authors	Bachelor's	52
			Editors	Bachelor's	35
			Technical Writers	Bachelor's	20
Creative Writing	Master's	6	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
			English Language and Literature Teachers, Postsecondary	Doctoral	57
English	Bachelor's	115	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
			English Language and Literature Teachers, Postsecondary	Doctoral	57
Literature	Master's	10	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
			English Language and Literature Teachers, Postsecondary	Doctoral	57
Pre-Credential	Bachelor's	34	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
			English Language and Literature Teachers, Postsecondary	Doctoral	57
Teaching English to Speakers of Other Languages	Master's	5	Elementary School Teachers, Except Special Education	Bachelor's	690
			Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
			Middle School Teachers, Except Special and Career/Technical Education	Bachelor's	223
			Kindergarten Teachers, Except Special Education	Bachelor's	77

(Continued on next page)

ACADEMIC PROGRAM NEEDS ASSESSMENT OF THE GREATER SACRAMENTO AREA

Table 46: Crosswalk of Program Areas and Associated Demand for Occupations

Program Name	Degrees Offered	2020-2021 Graduates	Associated Profession(s)	Preferred Education	Avg. Annual Job Openings	
History						
History	Bachelor's	90	Managers, All Other	Bachelor's	675	
	Master's	16	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488	
Pre-Credential	Bachelor's	28	Managers, All Other	Bachelor's	675	
			Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488	
Public History	Master's	4	Managers, All Other	Bachelor's	675	
Music						
Instrumental	Bachelor's	10	Art, Drama, and Music Teachers, Postsecondary	Master's	34	
			Music Directors and Composers	Bachelor's	30	
Jazz Studies	Bachelor's	10	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488	
Music	Bachelor's	8	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488	
Music Education	Bachelor's	21	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488	
Performance	Master's	4	Art, Drama, and Music Teachers, Postsecondary	Master's	34	
			Music Directors and Composers	Bachelor's	30	
Theory/Composition	Bachelor's	6	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488	
Voice	Bachelor's	2	Art, Drama, and Music Teachers, Postsecondary	Master's	34	
			Music Directors and Composers	Bachelor's	30	
Theatre and Dance						
Dance	Bachelor's	8	Art, Drama, and Music Teachers, Postsecondary	Master's	34	
Drama	Bachelor's	1	Producers and Directors	Bachelor's	73	
			Art, Drama, and Music Teachers, Postsecondary	Master's	34	
Theatre	Bachelor's	19	Producers and Directors	Bachelor's	73	
			Art, Drama, and Music Teachers, Postsecondary	Master's	34	
World Languages & Literatures						
French	Bachelor's	5	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488	
			Interpreters and Translators	Bachelor's	158	
			Foreign Language and Literature Teachers, Postsecondary	Doctoral	22	
Spanish	Bachelor's	42	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488	
	Master's	5	Interpreters and Translators	Bachelor's	158	
			Foreign Language and Literature Teachers, Postsecondary	Doctoral	22	
Business Administration						
Accountancy	Bachelor's	255	Management Analysts	Bachelor's	3,144	
			Master's	32	General and Operations Managers	Bachelor's
				Business Operations Specialists, All Other	Bachelor's	1,084
				Managers, All Other	Bachelor's	675
				Human Resources Specialists	Bachelor's	337
				Sales Managers	Bachelor's	331
				Construction Managers	Bachelor's	263
				Chief Executives	Bachelor's	208
				Compensation, Benefits, and Job Analysis Specialists	Bachelor's	174
				Cost Estimators	Bachelor's	173
				Human Resources Managers	Bachelor's	85
				Logisticians	Bachelor's	58
				Industrial Production Managers	Bachelor's	46
				Business Teachers, Postsecondary	Doctoral	22
				Training and Development Managers	Bachelor's	17
				Compensation and Benefits Managers	Bachelor's	10
Analytics	Bachelor's	3	Management Analysts	Bachelor's	3,144	
			General and Operations Managers	Bachelor's	1,448	
				Business Operations Specialists, All Other	Bachelor's	1,084
				Managers, All Other	Bachelor's	675
				Human Resources Specialists	Bachelor's	337
				Sales Managers	Bachelor's	331
				Construction Managers	Bachelor's	263
				Chief Executives	Bachelor's	208
				Compensation, Benefits, and Job Analysis Specialists	Bachelor's	174
				Cost Estimators	Bachelor's	173
				Human Resources Managers	Bachelor's	85
				Logisticians	Bachelor's	58
				Industrial Production Managers	Bachelor's	46
				Business Teachers, Postsecondary	Doctoral	22
				Training and Development Managers	Bachelor's	17
				Compensation and Benefits Managers	Bachelor's	10

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Table 46: Crosswalk of Program Areas and Associated Demand for Occupations

Program Name	Degrees Offered	2020-2021 Graduates	Associated Profession(s)	Preferred Education	Avg. Annual Job Openings
Analytics in Healthcare	Master's	14	Management Analysts	Bachelor's	3,144
			General and Operations Managers	Bachelor's	1,448
			Business Operations Specialists, All Other	Bachelor's	1,084
			Managers, All Other	Bachelor's	675
			Human Resources Specialists	Bachelor's	337
			Sales Managers	Bachelor's	331
			Construction Managers	Bachelor's	263
			Chief Executives	Bachelor's	208
			Compensation, Benefits, and Job Analysis Specialists	Bachelor's	174
			Cost Estimators	Bachelor's	173
			Human Resources Managers	Bachelor's	85
			Logisticians	Bachelor's	58
			Industrial Production Managers	Bachelor's	46
			Business Teachers, Postsecondary	Doctoral	22
Training and Development Managers	Bachelor's	17			
Compensation and Benefits Managers	Bachelor's	10			
Business Administration	Master's	18	Management Analysts	Bachelor's	3,144
			General and Operations Managers	Bachelor's	1,448
			Business Operations Specialists, All Other	Bachelor's	1,084
			Managers, All Other	Bachelor's	675
			Human Resources Specialists	Bachelor's	337
			Sales Managers	Bachelor's	331
			Construction Managers	Bachelor's	263
			Chief Executives	Bachelor's	208
			Compensation, Benefits, and Job Analysis Specialists	Bachelor's	174
			Cost Estimators	Bachelor's	173
			Human Resources Managers	Bachelor's	85
			Logisticians	Bachelor's	58
			Industrial Production Managers	Bachelor's	46
			Business Teachers, Postsecondary	Doctoral	22
Training and Development Managers	Bachelor's	17			
Compensation and Benefits Managers	Bachelor's	10			
Entrepreneurship	Bachelor's	45	Management Analysts	Bachelor's	3,144
			General and Operations Managers	Bachelor's	1,448
			Business Operations Specialists, All Other	Bachelor's	1,084
			Managers, All Other	Bachelor's	675
			Human Resources Specialists	Bachelor's	337
			Sales Managers	Bachelor's	331
			Construction Managers	Bachelor's	263
			Chief Executives	Bachelor's	208
			Compensation, Benefits, and Job Analysis Specialists	Bachelor's	174
			Cost Estimators	Bachelor's	173
			Human Resources Managers	Bachelor's	85
			Logisticians	Bachelor's	58
			Industrial Production Managers	Bachelor's	46
			Business Teachers, Postsecondary	Doctoral	22
Training and Development Managers	Bachelor's	17			
Compensation and Benefits Managers	Bachelor's	10			
Entrepreneurship & Global Business	Master's	29	Management Analysts	Bachelor's	3,144
			General and Operations Managers	Bachelor's	1,448
			Business Operations Specialists, All Other	Bachelor's	1,084
			Managers, All Other	Bachelor's	675
			Human Resources Specialists	Bachelor's	337
			Sales Managers	Bachelor's	331
			Construction Managers	Bachelor's	263
			Chief Executives	Bachelor's	208
			Compensation, Benefits, and Job Analysis Specialists	Bachelor's	174
			Cost Estimators	Bachelor's	173
			Human Resources Managers	Bachelor's	85
			Logisticians	Bachelor's	58
			Industrial Production Managers	Bachelor's	46
			Business Teachers, Postsecondary	Doctoral	22
Training and Development Managers	Bachelor's	17			
Compensation and Benefits Managers	Bachelor's	10			

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Table 46: Crosswalk of Program Areas and Associated Demand for Occupations

Program Name	Degrees Offered	2020-2021 Graduates	Associated Profession(s)	Preferred Education	Avg. Annual Job Openings	
Finance	Bachelor's	195	Management Analysts	Bachelor's	3,144	
			General and Operations Managers	Bachelor's	1,448	
	Master's	27	Business Operations Specialists, All Other	Bachelor's	1,084	
			Managers, All Other	Bachelor's	675	
				Human Resources Specialists	Bachelor's	337
				Sales Managers	Bachelor's	331
				Construction Managers	Bachelor's	263
				Chief Executives	Bachelor's	208
				Compensation, Benefits, and Job Analysis Specialists	Bachelor's	174
				Cost Estimators	Bachelor's	173
				Human Resources Managers	Bachelor's	85
				Logisticians	Bachelor's	58
				Industrial Production Managers	Bachelor's	46
				Business Teachers, Postsecondary	Doctoral	22
			Training and Development Managers	Bachelor's	17	
			Compensation and Benefits Managers	Bachelor's	10	
General Management	Bachelor's	106	Management Analysts	Bachelor's	3,144	
			General and Operations Managers	Bachelor's	1,448	
			Business Operations Specialists, All Other	Bachelor's	1,084	
			Managers, All Other	Bachelor's	675	
				Human Resources Specialists	Bachelor's	337
				Sales Managers	Bachelor's	331
				Construction Managers	Bachelor's	263
				Chief Executives	Bachelor's	208
				Compensation, Benefits, and Job Analysis Specialists	Bachelor's	174
				Cost Estimators	Bachelor's	173
				Human Resources Managers	Bachelor's	85
				Logisticians	Bachelor's	58
				Industrial Production Managers	Bachelor's	46
				Business Teachers, Postsecondary	Doctoral	22
			Training and Development Managers	Bachelor's	17	
			Compensation and Benefits Managers	Bachelor's	10	
Human Resource Management	Bachelor's	86	Management Analysts	Bachelor's	3,144	
			General and Operations Managers	Bachelor's	1,448	
			Business Operations Specialists, All Other	Bachelor's	1,084	
			Managers, All Other	Bachelor's	675	
				Human Resources Specialists	Bachelor's	337
				Sales Managers	Bachelor's	331
				Construction Managers	Bachelor's	263
				Chief Executives	Bachelor's	208
				Compensation, Benefits, and Job Analysis Specialists	Bachelor's	174
				Cost Estimators	Bachelor's	173
				Human Resources Managers	Bachelor's	85
				Logisticians	Bachelor's	58
				Industrial Production Managers	Bachelor's	46
				Business Teachers, Postsecondary	Doctoral	22
			Training and Development Managers	Bachelor's	17	
			Compensation and Benefits Managers	Bachelor's	10	
International Business	Bachelor's	32	Management Analysts	Bachelor's	3,144	
			General and Operations Managers	Bachelor's	1,448	
	Master's	3	Business Operations Specialists, All Other	Bachelor's	1,084	
			Managers, All Other	Bachelor's	675	
				Human Resources Specialists	Bachelor's	337
				Sales Managers	Bachelor's	331
				Construction Managers	Bachelor's	263
				Chief Executives	Bachelor's	208
				Compensation, Benefits, and Job Analysis Specialists	Bachelor's	174
				Cost Estimators	Bachelor's	173
				Human Resources Managers	Bachelor's	85
				Logisticians	Bachelor's	58
				Industrial Production Managers	Bachelor's	46
				Business Teachers, Postsecondary	Doctoral	22
			Training and Development Managers	Bachelor's	17	
			Compensation and Benefits Managers	Bachelor's	10	

(Continued on next page)

Table 46: Crosswalk of Program Areas and Associated Demand for Occupations

Program Name	Degrees Offered	2020-2021 Graduates	Associated Profession(s)	Preferred Education	Avg. Annual Job Openings
International MBA	Master's	3	Management Analysts	Bachelor's	3,144
			General and Operations Managers	Bachelor's	1,448
			Business Operations Specialists, All Other	Bachelor's	1,084
			Managers, All Other	Bachelor's	675
			Human Resources Specialists	Bachelor's	337
			Sales Managers	Bachelor's	331
			Construction Managers	Bachelor's	263
			Chief Executives	Bachelor's	208
			Compensation, Benefits, and Job Analysis Specialists	Bachelor's	174
			Cost Estimators	Bachelor's	173
			Human Resources Managers	Bachelor's	85
			Logisticians	Bachelor's	58
			Industrial Production Managers	Bachelor's	46
			Business Teachers, Postsecondary	Doctoral	22
Training and Development Managers	Bachelor's	17			
Compensation and Benefits Managers	Bachelor's	10			
Marketing	Bachelor's	138	Management Analysts	Bachelor's	3,144
			General and Operations Managers	Bachelor's	1,448
			Business Operations Specialists, All Other	Bachelor's	1,084
			Managers, All Other	Bachelor's	675
			Human Resources Specialists	Bachelor's	337
			Sales Managers	Bachelor's	331
			Construction Managers	Bachelor's	263
			Chief Executives	Bachelor's	208
			Compensation, Benefits, and Job Analysis Specialists	Bachelor's	174
			Cost Estimators	Bachelor's	173
			Human Resources Managers	Bachelor's	85
			Logisticians	Bachelor's	58
			Industrial Production Managers	Bachelor's	46
			Business Teachers, Postsecondary	Doctoral	22
Training and Development Managers	Bachelor's	17			
Compensation and Benefits Managers	Bachelor's	10			
Management Information Systems	Bachelor's	84	Management Analysts	Bachelor's	3,144
			General and Operations Managers	Bachelor's	1,448
			Business Operations Specialists, All Other	Bachelor's	1,084
			Managers, All Other	Bachelor's	675
			Human Resources Specialists	Bachelor's	337
			Sales Managers	Bachelor's	331
			Construction Managers	Bachelor's	263
			Chief Executives	Bachelor's	208
			Compensation, Benefits, and Job Analysis Specialists	Bachelor's	174
			Cost Estimators	Bachelor's	173
			Human Resources Managers	Bachelor's	85
			Logisticians	Bachelor's	58
			Industrial Production Managers	Bachelor's	46
			Business Teachers, Postsecondary	Doctoral	22
Training and Development Managers	Bachelor's	17			
Compensation and Benefits Managers	Bachelor's	10			
Supply Chain Management	Bachelor's	18	Management Analysts	Bachelor's	3,144
			General and Operations Managers	Bachelor's	1,448
			Business Operations Specialists, All Other	Bachelor's	1,084
			Managers, All Other	Bachelor's	675
			Human Resources Specialists	Bachelor's	337
			Sales Managers	Bachelor's	331
			Construction Managers	Bachelor's	263
			Chief Executives	Bachelor's	208
			Compensation, Benefits, and Job Analysis Specialists	Bachelor's	174
			Cost Estimators	Bachelor's	173
			Human Resources Managers	Bachelor's	85
			Logisticians	Bachelor's	58
			Industrial Production Managers	Bachelor's	46
			Business Teachers, Postsecondary	Doctoral	22
Training and Development Managers	Bachelor's	17			
Compensation and Benefits Managers	Bachelor's	10			

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ACADEMIC PROGRAM NEEDS ASSESSMENT OF THE GREATER SACRAMENTO AREA

Table 46: Crosswalk of Program Areas and Associated Demand for Occupations

Program Name	Degrees Offered	2020-2021 Graduates	Associated Profession(s)	Preferred Education	Avg. Annual Job Openings
Education					
Graduate Professional Studies					
Behavioral Science Gender Equity	Master's	9	Education Teachers, Postsecondary	Doctoral	13
Career Counseling	Master's	21	Educational, Guidance, and Career Counselors and Advisors	Master's	282
Curriculum & Instruction	Master's	21	Instructional Coordinators	Master's	123
			Education Teachers, Postsecondary	Doctoral	13
Education Specialist	Master's	15	Education Teachers, Postsecondary	Doctoral	13
Educational Leadership Community Co	Doctorate	8	Education Administrators, Kindergarten through Secondary	Master's	112
			Education and Childcare Administrators, Preschool and Daycare	Bachelor's	45
			Education Administrators, All Other	Bachelor's	34
Educational Leadership (P-12)	Doctorate	9	Education Administrators, Kindergarten through Secondary	Master's	112
			Education and Childcare Administrators, Preschool and Daycare	Bachelor's	45
			Education Administrators, All Other	Bachelor's	34
Educational Leadership Policy Studies	Master's	13	Education Administrators, Kindergarten through Secondary	Master's	112
			Education and Childcare Administrators, Preschool and Daycare	Bachelor's	45
			Education Administrators, All Other	Bachelor's	34
Educational Technology	Master's	7	Training and Development Specialists	Bachelor's	196
			Instructional Coordinators	Master's	123
Higher Education Leadership	Master's	26	Education Administrators, Kindergarten through Secondary	Master's	112
			Education and Childcare Administrators, Preschool and Daycare	Bachelor's	45
			Education Administrators, All Other	Bachelor's	34
Language & Literacy	Master's	9	Education Teachers, Postsecondary	Doctoral	13
Marriage, Couple, and Family Counseli	Master's	27	Educational, Guidance, and Career Counselors and Advisors	Master's	282
Multicultural Education	Master's	15	Elementary School Teachers, Except Special Education	Bachelor's	690
			Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
			Middle School Teachers, Except Special and Career/Technical Education	Bachelor's	223
			Kindergarten Teachers, Except Special Education	Bachelor's	77
			Education Teachers, Postsecondary	Doctoral	13
School Counseling	Master's	27	Educational, Guidance, and Career Counselors and Advisors	Master's	282
School Psychology	Master's	22	Educational, Guidance, and Career Counselors and Advisors	Master's	282
Vocational Rehabilitation Counseling	Master's	12	Educational, Guidance, and Career Counselors and Advisors	Master's	282
Undergraduate Studies in Education					
Career & Technical Studies	Bachelor's	24	Career/Technical Education Teachers, Postsecondary	Bachelor's	46
			Education Teachers, Postsecondary	Doctoral	13
Child Development	Master's	9	Psychologists, All Other	Master's	11
Child Development (Individual)	Bachelor's	134	Psychologists, All Other	Master's	11
Child Development (Plan B)	Bachelor's	6	Psychologists, All Other	Master's	11
Early Development Care & Education	Bachelor's	69	Psychologists, All Other	Master's	11
Elementary Pre-Credential	Bachelor's	142	Psychologists, All Other	Master's	11
Social & Community Settings	Bachelor's	147	Psychologists, All Other	Master's	11
Engineering & Computer Science					
Civil Engineering	Bachelor's	159	Civil Engineers	Bachelor's	395
			Architectural and Engineering Managers	Bachelor's	117
			Engineering Teachers, Postsecondary	Doctoral	24
Computer Science					
Computer Science	Bachelor's	256	Computer and Information Systems Managers	Bachelor's	249
	Master's	55	Computer Science Teachers, Postsecondary	Doctoral	20
Software Engineering	Master's	3	Architectural and Engineering Managers	Bachelor's	117
			Engineering Teachers, Postsecondary	Doctoral	24
Construction Management					
Construction Management	Bachelor's	56	Civil Engineers	Bachelor's	395
			Cost Estimators	Bachelor's	173
			Architectural and Engineering Managers	Bachelor's	117
			Engineers, All Other	Bachelor's	61
			Engineering Teachers, Postsecondary	Doctoral	24
Electrical & Electronic Engineering					
Computer Engineering	Bachelor's	65	Computer Hardware Engineers	Bachelor's	124
	Master's	8	Architectural and Engineering Managers	Bachelor's	117
			Engineering Teachers, Postsecondary	Doctoral	24
Electrical & Electronic Engineering	Bachelor's	90	Computer Hardware Engineers	Bachelor's	124
	Master's	26	Architectural and Engineering Managers	Bachelor's	117
			Electrical Engineers	Bachelor's	105
			Electronics Engineers, Except Computer	Bachelor's	79
			Engineering Teachers, Postsecondary	Doctoral	24

(Continued on next page)

Table 46: Crosswalk of Program Areas and Associated Demand for Occupations

Program Name	Degrees Offered	2020-2021 Graduates	Associated Profession(s)	Preferred Education	Avg. Annual Job Openings
Mechanical Engineering					
Mechanical Engineering	Bachelor's	200	Cost Estimators	Bachelor's	173
	Master's	13	Architectural and Engineering Managers	Bachelor's	117
			Mechanical Engineers	Bachelor's	80
			Engineering Teachers, Postsecondary	Doctoral	24
Mechanical Engineering, Blended	Bachelor's	16	Cost Estimators	Bachelor's	173
	Master's	6	Architectural and Engineering Managers	Bachelor's	117
			Mechanical Engineers	Bachelor's	80
			Engineering Teachers, Postsecondary	Doctoral	24
Health & Human Services					
Communication Sciences and Disorder	Bachelor's	127	Speech-Language Pathologists	Master's	73
	Master's	33			
Criminal Justice	Bachelor's	471	Managers, All Other	Bachelor's	675
	Master's	1			
Nursing					
Nursing Degree Completion	Bachelor's	41	Registered Nurses	Bachelor's	1,448
			Nursing Instructors and Teachers, Postsecondary	Doctoral	14
Nursing, Pre-Licensure	Bachelor's	155	Registered Nurses	Bachelor's	1,448
			Nursing Instructors and Teachers, Postsecondary	Doctoral	14
Nursing with RN license	Bachelor's	65	Registered Nurses	Bachelor's	1,448
	Master's	53	Nursing Instructors and Teachers, Postsecondary	Doctoral	14
Physical Therapy	Doctorate	29	Physical Therapists	Doctoral	87
Public Health					
Community Health Education	Bachelor's	51	Medical and Health Services Managers	Bachelor's	239
			Health Education Specialists	Bachelor's	65
Health Care Administration	Bachelor's	92	Medical and Health Services Managers	Bachelor's	239
			Health Education Specialists	Bachelor's	65
Occupational Health & Safety	Bachelor's	23	Medical and Health Services Managers	Bachelor's	239
			Health Education Specialists	Bachelor's	65
Recreation, Parks, & Tourism Administration					
Hospitality and Tour Management	Bachelor's	6	Market Research Analysts and Marketing Specialists	Bachelor's	473
			Marketing Managers	Bachelor's	145
Recreation Administration	Bachelor's	53	Recreation and Fitness Studies Teachers, Postsecondary	Doctoral	9
	Master's	5			
Recreation Therapy	Bachelor's	30	Recreation and Fitness Studies Teachers, Postsecondary	Doctoral	9
Social Work	Bachelor's	206	Healthcare Social Workers	Master's	163
	Master's	110	Child, Family, and School Social Workers	Bachelor's	142
			Marriage and Family Therapists	Master's	117
			Mental Health and Substance Abuse Social Workers	Master's	114
			Social Workers, All Other	Bachelor's	107
			Probation Officers and Correctional Treatment Specialists	Bachelor's	102
		Counselors, All Other	Master's	42	
Natural Sciences & Mathematics					
Biological Sciences					
Biological Sciences	Bachelor's	86	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
	Master's	1	Biological Technicians	Bachelor's	87
			Biological Scientists, All Other	Bachelor's	72
			Natural Sciences Managers	Bachelor's	49
			Biological Science Teachers, Postsecondary	Doctoral	35
			Life Scientists, All Other	Bachelor's	29
Biomedical Science	Bachelor's	114	Biological Technicians	Bachelor's	87
			Medical Scientists, Except Epidemiologists	Doctoral	84
			Biological Science Teachers, Postsecondary	Doctoral	35
Cell & Molecular Biology	Bachelor's	12	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
	Master's	5	Biological Technicians	Bachelor's	87
			Biological Scientists, All Other	Bachelor's	72
			Natural Sciences Managers	Bachelor's	49
			Biological Science Teachers, Postsecondary	Doctoral	35
			Life Scientists, All Other	Bachelor's	29

(Continued on next page)

ACADEMIC PROGRAM NEEDS ASSESSMENT OF THE GREATER SACRAMENTO AREA

Table 46: Crosswalk of Program Areas and Associated Demand for Occupations

Program Name	Degrees Offered	2020-2021 Graduates	Associated Profession(s)	Preferred Education	Avg. Annual Job Openings
Clinical Laboratory	Bachelor's	29	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
			Biological Technicians	Bachelor's	87
			Biological Scientists, All Other	Bachelor's	72
			Natural Sciences Managers	Bachelor's	49
			Biological Science Teachers, Postsecondary	Doctoral	35
			Life Scientists, All Other	Bachelor's	29
Ecology & Evolution	Bachelor's	13	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
	Master's	1	Biological Technicians	Bachelor's	87
			Biological Scientists, All Other	Bachelor's	72
			Natural Sciences Managers	Bachelor's	49
			Biological Science Teachers, Postsecondary	Doctoral	35
			Life Scientists, All Other	Bachelor's	29
Forensic Biology	Bachelor's	11	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
			Biological Technicians	Bachelor's	87
			Biological Scientists, All Other	Bachelor's	72
			Natural Sciences Managers	Bachelor's	49
			Biological Science Teachers, Postsecondary	Doctoral	35
			Life Scientists, All Other	Bachelor's	29
Microbiology	Bachelor's	11	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
			Biological Technicians	Bachelor's	87
			Biological Scientists, All Other	Bachelor's	72
			Natural Sciences Managers	Bachelor's	49
			Biological Science Teachers, Postsecondary	Doctoral	35
			Life Scientists, All Other	Bachelor's	29
Stem Cell	Master's	8	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
			Biological Technicians	Bachelor's	87
			Biological Scientists, All Other	Bachelor's	72
			Natural Sciences Managers	Bachelor's	49
			Biological Science Teachers, Postsecondary	Doctoral	35
			Life Scientists, All Other	Bachelor's	29
Chemistry					
Biochemistry	Bachelor's	43	Biological Technicians	Bachelor's	87
	Master's	2	Medical Scientists, Except Epidemiologists	Doctoral	84
			Natural Sciences Managers	Bachelor's	49
			Biological Science Teachers, Postsecondary	Doctoral	35
			Biochemists and Biophysicists	Doctoral	13
Chemistry	Bachelor's	18	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
	Master's	4	Natural Sciences Managers	Bachelor's	49
			Chemists	Bachelor's	48
			Chemistry Teachers, Postsecondary	Doctoral	12
Forensic Chemistry	Bachelor's	4	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
			Natural Sciences Managers	Bachelor's	49
			Chemists	Bachelor's	48
			Chemistry Teachers, Postsecondary	Doctoral	12
Geography					
Geographic Information Systems & An	Bachelor's	14	Managers, All Other	Bachelor's	675
Human Geography	Bachelor's	2	Managers, All Other	Bachelor's	675
Metropolitan Area Planning	Bachelor's	9	Managers, All Other	Bachelor's	675
Physical Geography	Bachelor's	9	Managers, All Other	Bachelor's	675
Geology					
Earth Science	Bachelor's	1	Natural Sciences Managers	Bachelor's	49
			Geoscientists, Except Hydrologists and Geographers	Bachelor's	47
			Hydrologists	Bachelor's	20
Geology	Bachelor's	13	Natural Sciences Managers	Bachelor's	49
	Master's	6	Geoscientists, Except Hydrologists and Geographers	Bachelor's	47
			Hydrologists	Bachelor's	20
Mathematics	Bachelor's	70	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
	Master's	10	Statisticians	Master's	118
			Natural Sciences Managers	Bachelor's	49
			Mathematical Science Teachers, Postsecondary	Doctoral	34

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ACADEMIC PROGRAM NEEDS ASSESSMENT OF THE GREATER SACRAMENTO AREA

Table 46: Crosswalk of Program Areas and Associated Demand for Occupations

Program Name	Degrees Offered	2020-2021 Graduates	Associated Profession(s)	Preferred Education	Avg. Annual Job Openings
Physics					
Applied Physics	Bachelor's	5	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
			Natural Sciences Managers	Bachelor's	49
			Physics Teachers, Postsecondary	Doctoral	15
Physics	Bachelor's	15	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
			Natural Sciences Managers	Bachelor's	49
			Physics Teachers, Postsecondary	Doctoral	15
Teacher Preparation	Bachelor's	2	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
			Natural Sciences Managers	Bachelor's	49
			Physics Teachers, Postsecondary	Doctoral	15
Social Sciences & Interdisciplinary Studies					
Anthropology					
Anthropology	Bachelor's	18	Managers, All Other	Bachelor's	675
	Master's	8	Anthropologists and Archeologists	Master's	44
Anthropology Culture, Language & Soc	Bachelor's	10	Managers, All Other	Bachelor's	675
			Anthropologists and Archeologists	Master's	44
Archaeology & Biological Anthropology	Bachelor's	17	Managers, All Other	Bachelor's	675
			Anthropologists and Archeologists	Master's	44
Economics					
	Bachelor's	204	Managers, All Other	Bachelor's	675
	Master's	9	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
			Economists	Master's	15
Environmental Studies					
	Bachelor's	58	Environmental Scientists and Specialists, Including Health	Bachelor's	296
			Compliance Officers	Bachelor's	227
Family & Consumer Sciences					
FACS (Education)	Bachelor's	4	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
Nutrition and Food	Bachelor's	115	Biological Scientists, All Other	Bachelor's	72
			Natural Sciences Managers	Bachelor's	49
			Dietitians and Nutritionists	Bachelor's	41
			Biological Science Teachers, Postsecondary	Doctoral	35
			Life Scientists, All Other	Bachelor's	29
Nutrition and Food (Dietetics)	Bachelor's	27	Biological Scientists, All Other	Bachelor's	72
			Natural Sciences Managers	Bachelor's	49
			Dietitians and Nutritionists	Bachelor's	41
			Biological Science Teachers, Postsecondary	Doctoral	35
			Life Scientists, All Other	Bachelor's	29
Gerontology					
	Bachelor's	66	Medical Scientists, Except Epidemiologists	Doctoral	84
			Social Scientists and Related Workers, All Other	Bachelor's	62
Political Science					
Government	Bachelor's	2	Managers, All Other	Bachelor's	675
			Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
Government - Journalism	Bachelor's	1	Managers, All Other	Bachelor's	675
			Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
International Relations	Bachelor's	44	Managers, All Other	Bachelor's	675
			Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
Political Science	Bachelor's	105	Managers, All Other	Bachelor's	675
	Master's	12	Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
Psychology					
Applied Behavior & Analysis	Master's	5	Managers, All Other	Bachelor's	675
			Psychology Teachers, Postsecondary	Doctoral	19
			Psychologists, All Other	Master's	11
Industrial & Organizational Psychology	Master's	8	Management Analysts	Bachelor's	3,144
			Managers, All Other	Bachelor's	675
			Human Resources Specialists	Bachelor's	337
			Training and Development Specialists	Bachelor's	196
			Human Resources Managers	Bachelor's	85
			Psychology Teachers, Postsecondary	Doctoral	19
			Training and Development Managers	Bachelor's	17
Psychology	Bachelor's	592	Managers, All Other	Bachelor's	675
	Master's	9	Psychology Teachers, Postsecondary	Doctoral	19
			Psychologists, All Other	Master's	11

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Table 46: Crosswalk of Program Areas and Associated Demand for Occupations

Program Name	Degrees Offered	2020-2021 Graduates	Associated Profession(s)	Preferred Education	Avg. Annual Job Openings
Public Policy & Administration					
Public Policy & Administration	Master's	32	General and Operations Managers	Bachelor's	1,448
			Managers, All Other	Bachelor's	675
			Chief Executives	Bachelor's	208
			Legislators	Bachelor's	17
Urban Land Development	Master's	2	Management Analysts	Bachelor's	3,144
			General and Operations Managers	Bachelor's	1,448
			Business Operations Specialists, All Other	Bachelor's	1,084
			Managers, All Other	Bachelor's	675
			Human Resources Specialists	Bachelor's	337
			Sales Managers	Bachelor's	331
			Construction Managers	Bachelor's	263
			Chief Executives	Bachelor's	208
			Compensation, Benefits, and Job Analysis Specialists	Bachelor's	174
			Cost Estimators	Bachelor's	173
			Human Resources Managers	Bachelor's	85
			Logisticians	Bachelor's	58
			Industrial Production Managers	Bachelor's	46
			Business Teachers, Postsecondary	Doctoral	22
			Training and Development Managers	Bachelor's	17
			Compensation and Benefits Managers	Bachelor's	10
Social Science					
	Bachelor's	24	Managers, All Other	Bachelor's	675
			Secondary School Teachers, Except Special and Career/Technical Education	Bachelor's	488
			Social Scientists and Related Workers, All Other	Bachelor's	62
Sociology					
	Bachelor's	278	Managers, All Other	Bachelor's	675
	Master's	10	Sociologists	Master's	14

Regional reports from the Office of Institutional Research, Effectiveness & Planning at Sacramento State, Public Policy Institute of California (PPIC) and the Economic Development Department (EDD) all echo that the industry forecast needs to keep up with the economic demands of business and commerce.

The occupational trade and skill labor sector presents a large gap between what is offered at the CSU's and UC's, and do not meet the needs of the local economy. The fastest growing occupational categories projected from 2018-2028 for the Greater Sacramento Area include trade and skill labor and service; Transportation Workers, Personal Care Aids, Physical Therapist Assistants, and Personal Care and Service Workers These top employment needs pose a major gap in industry needs and must be addressed by either certificate's, coursework or apprenticeship programs.

Sacramento State, which is part of the CSU system, along with the UC system offers educational programs to prepare graduates in most career areas. Highlighted are the top three programs with job opportunities; Business, Nursing, and Education. This was determined by examining the number of graduates compared to the average annual job openings. These are the three program areas we will need more graduates from in order to fulfill the demands of the Greater Sacramento Area labor market.

Sacramento State along with the other local colleges and universities will need to come up with technological, innovative and fresh ideas on how to meet the present and future employment gaps.

V. Conclusions

This report has been assembled with important data to help the leaders at Sacramento State make informed decisions for the institution. This section reflects on the key findings of the report. The following bullet points discuss highlights from each section. First, the market situation will be summarized followed by program areas and demand and other areas for consideration.

A. Market Situation

This section provides an overview of the population, employment, income and poverty, and education characteristics of the Greater Sacramento Area.

Population Characteristics

- The population of Sacramento County is growing at a fast pace. Projections from 2020 to 2060 reveal that Sacramento County will continue to grow and will reach 1,979,204 by 2060. Placer County is projected to increase to 522,567 by 2060. San Joaquin County is expected to grow to 996,241 and Yolo County is expected to grow to 316,740 by 2060.

Employment and Industry Characteristics

- The unemployment rate had been persisting in a downward trend until 2020 when it more than doubled. A look at unemployment rate patterns reveals higher unemployment rates in California and the Greater Sacramento Region compared to the U.S national average. The rates for the State of California had been lower than the rates in the Greater Sacramento Region until 2020. The Greater Sacramento Region is now lower than California.

The list below shows the educational level required for occupations that have 50 or more job openings in the Greater Sacramento Area.

Jobs requiring a Doctoral or Professional degree (# of average annual job openings, 50 or more)

- Lawyers (366)
- Clinical, Counseling, and School Psychologist (123)
- Pharmacists (100)
- Physical Therapists (87)
- Medical Scientists, Except Epidemiologists (84)
- Physicians and Surgeons, All Other (71)
- English Language and Literature Teachers, Postsecondary (57)

Jobs requiring a Master's degree (# of average annual job openings, 50 or more)

- Educational, Guidance, School, and Vocational Counselors (282)
- Healthcare Social Workers (163)
- Instructional Coordinators (123)
- Statisticians (118)
- Marriage and Family Therapists (117)
- Mental Health and Substance Abuse Social Workers (114)
- Education Administrators, Elementary and Secondary School (112)
- Nurse Practitioners (81)
- Physician Assistants (74)
- Speech-Language Pathologists (73)

- Urban and Regional Planners (73)
- Rehabilitation Counselors (71)
- Librarians (58)

Jobs requiring a Bachelor's Degree (# of annual average job openings, 50 or more)

- Management Analysts (3,144)
- General and Operations Managers (1,448)
- Registered Nurses (1,448)
- Accountants and Auditors (1,170)
- Business operations Specialists (1,084)
- Substitute Teachers (749)
- Elementary School Teachers, Except Special Education (690)
- Managers (675)
- Teachers and Instructors, All Other, Except Substitute Teachers (568)
- Computer Systems Analysts (552)
- Secondary School Teachers, Except Special Education and Career/Technical Education (488)
- Market Research Analysts and Marketing Specialists (473)
- Software Developers, Systems Software (454)
- Coaches and Scouts (453)
- Software Developers, Applications (433)
- Financial Managers (411)
- Civil Engineers (395)
- Human Resources Specialists (337)
- Sales Managers (331)
- Environmental Scientists and Specialists, Including Health (296)
- Securities, Commodities, and Financial Service Sales Agent (294)
- Tax Examiners and collectors and Revenue Agents (281)
- Graduate Teaching Assistants (270)
- Computer Occupations, All other (267)
- Construction Managers (263)
- Loan Officers (260)
- Computer and Information Systems Managers (249)
- Medical and Health Services Managers (239)
- Compliance Officers (227)
- Middle School Teachers, Except Special and Career/Technical Education (223)
- Substance Abuse, Behavioral Disorder, and Mental Health Counselors (214)
- Buyers and Purchasing Agents (212)
- Chief Executives (208)
- Administrative Services Managers (206)
- Public Relations Specialists (205)
- Training and Development Specialists (196)
- Financial Analysts (175)
- Compensation, Benefits, and Job Analysis Specialists (174)
- Cost Estimators (173)
- Interpreters and Translators (158)
- Education, Training, and Library Workers (155)
- Marketing Managers (145)
- Child, Family, and School Social Workers (142)

- Clinical Laboratory Technologists and Technicians (133)
- Graphic Designers (126)
- Meeting, Convention, and Event Planners (126)
- Network and Computer Systems Administrators (126)
- Computer Hardware Engineers (124)
- Computer Programmers (123)
- Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products (123)
- Environmental Engineers (119)
- Architectural and Engineering Managers (117)
- Personal Financial Advisors (109)
- Social Workers, All Other (107)
- Electrical Engineers (105)
- Community and Social Service Specialists (104)
- Probation Officers and Correctional Treatment Specialists (102)
- Financial Specialists, All Other (95)
- Biological Technicians (87)
- Human Resources Managers (85)
- Insurance Underwriters (84)
- Fundraisers (81)
- Operations Research Analysts (81)
- Clergy (80)
- Mechanical Engineers (80)
- Electronics Engineers, Except Computer (79)
- Interior Designers (77)
- Kindergarten Teachers, Except Special Education (77)
- Directors, Religious Activities and Education (74)
- Appraisers and Assessors of Real Estate (73)
- Architects, Except Landscape and Naval (73)
- Producers and Directors (73)
- Biological Scientists, All Other (72)
- Soil and Plant Scientists (70)
- Health Educators (65)
- Special Education Teachers, Kindergarten and Elementary School (64)
- Social Scientists and Related Workers, All Other (62)
- Budget Analysts (61)
- Engineers, All Other (61)
- Logisticians (58)
- Zoologists and Wildlife Biologists (53)
- Writers and Authors (52)
- Computer Network Architects (51)

Jobs Requiring an Associate's Degree (# of average annual job openings, 50 or higher)

- Preschool Teachers, Except Special Education (373)
- Paralegals and Legal Assistants (216)
- Electrical and Electronics Engineering Technicians (154)
- Dental Hygienists (137)
- Agricultural and Food Science Technicians (116)
- Architectural and Civil Drafters (91)

- Respiratory Therapists (86)
- Radiologic Technologists (84)
- Human Resources Assistants, Except Payroll and Timekeeping (83)
- Physical Therapist Assistants (83)
- Veterinary Technologists and Technicians (83)
- Computer Network Support Specialists (79)
- Environmental Science and Protection Technicians, Including Health (74)
- Forest and Conservation Technicians (73)
- Web Developers (61)
- Civil Engineering Technicians (58)
- Engineering Technicians, Except Drafters, All Other (53)

Jobs requiring a Postsecondary, Non-Degree Award (# of average job openings, 50 or more)

- Heavy and Tractor-Trailer Truck Drivers (1,148)
- Medical Assistants (977)
- Nursing Assistants (767)
- Hairdressers, Hairstylists, and Cosmetologists (707)
- Automotive Service Technicians and Mechanics (468)
- Dental Assistants (447)
- Heating, Air Conditioning, and Refrigeration Mechanics and Installers (378)
- Licensed Practical and Licensed Vocational Nurses (366)
- Telecommunications Equipment Installers and Repairers, Except Line Installers (296)
- Massage Therapists (232)
- Manicurists and Pedicurists (227)
- Medical Records and Health Information Technicians (139)
- Firefighters (128)
- Health Technologists and Technicians, All Other (125)
- Phlebotomists (109)
- Emergency Medical Technicians and Paramedics (78)
- Surgical Technologists (77)
- Library Technicians (69)
- Medical Transcriptionists (57)
- Skincare Specialists (57)

Income and Poverty Characteristics

- In 2021, the Greater Sacramento Area had a higher poverty rate compared to the state of California. Also, in 2021 per capita income was higher for California when compared to the Greater Sacramento Area and the United States.

Educational Characteristics

- When examining the Greater Sacramento Area, San Joaquin County has the highest percentage of the population with no college and is higher than the U.S and the state of California. Sacramento County has a higher percentage than the state of California and the U.S. Placer County has the highest percentage with an Associate or Bachelor’s degree, and a Graduate/Professional degree.
- The percentage of 12th graders graduating from high school was 82.8% for the class of 2020-21 in the Greater Sacramento Area which was slightly below the State of California (Table 5). Yolo County had the biggest change from 2017 to 2021 with a 5.1% increase.

- UC Davis had the highest number of graduates with 11,132 in FY 2021. Sacramento State increased from 5,976 in FY 2011 to 8,171 in FY 2021.
- Over 39,000 degrees and certificates were awarded by the nine major local postsecondary education providers for 2020-2021 Academic Year. The institutions include: Sacramento State, UC Davis, Sierra College, American River College, Cosumnes River College, Folsom Lake College, Sacramento City College, Woodland Community College and San Joaquin Delta.
- Sacramento State awarded 8,171 degrees in AY 2020-21. These included 7,334 Bachelor's degrees in 67 programs, 792 Master's degrees in 57 programs, and 45 Doctoral degrees in 5 programs.
 - The area of study with the largest number of bachelor's degrees awarded was Social Sciences & Interdisciplinary Studies with 1,863 degrees. The College of Social Sciences & Interdisciplinary Studies encompasses 14 different departments.
 - Health & Human Services followed Social Sciences & Interdisciplinary Studies with 1,606 degrees awarded. Followed by Arts & Letters (1,144), Business Administration (906), Engineering & Computer Science (838), Education (535), Natural Sciences & Mathematics (427), and Special Majors (15).
 - The area of study with the largest number of Master's degrees awarded was Education with 229 degrees. Other areas with over 100 Master's Degrees awarded were Health & Human Services and Business Administration.
 - Sacramento State awarded 45 Doctorate degrees. 29 in Health & Human Services and 16 in Education.

B. Program Areas and Local Demand

- According to the State of California Employment Development Department, over 133,000 annual job openings will be available from 2018-2028. Of these jobs, 21% require a Bachelor's Degree or higher.
- When examining positions requiring a doctoral degree, Lawyers will have 366 openings from 2018-2028. Additionally, Clinical, Counseling, and School Psychologists and Pharmacists also have high average job openings.
- For positions requiring a Master's, Educational, Guidance, School, and Vocational Counselors will have the highest average job openings from 2018-2028. Sacramento State has degrees within the College of Education that will be paramount in helping to fill these positions.
- For positions requiring a Bachelor's, Management Analysts, General and Operations Managers, and Registered Nurses are the top three occupations in the Greater Sacramento Area 2018-2028. The College of Business Administration and the College of Health and Human Services degrees will be essential to filling in these occupations.
- Sacramento State offers educational programs to prepare graduates in most areas. A few of the largest job openings include areas within business such as managers and accountants. Additional occupations include teachers, registered nurses, environmental scientists, and computer systems analysts. Areas of need include occupations such as lawyers, judges and judicial law clerks. Sacramento State offers undergraduate and graduate degrees in political science that can help students prepare for these fields. Other areas include physicians, dentists, nurse practitioners and substitute teachers. The nursing program at Sacramento State can help prepare nurses to become nurse practitioners.



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