

#### Memorandum

To: Sandy Fowler, Dean of CTE & Workforce Development, Woodland Community College

From: Ebony J. Benzing, Research Manager, North/Far North Center of Excellence

Date: Tuesday, March 30, 2021

Re: Labor market data for Woodland Community College's Lake County Campus CE Programs

### **Background**

Woodland Community College contacted the North (Greater Sacramento) Center of Excellence to request labor market information to support career education programming at its Lake County Campus. The Lake County Campus is located in Clearlake, about 90 miles (or a 1.5 hours drive) northwest of Woodland's main campus.

This memo provides an analysis of occupational demand and program supply data for several programs offered at Woodland's Lake County Campus: Welding (<u>Exhibit 1</u>), Human Services and Chemical Dependency (<u>Exhibit 2</u>), Culinary Arts (<u>Exhibit 3</u>), and Accounting (<u>Exhibit 4</u>). The requests from Woodland specifically called out the need for labor market data for these programs.

### Methodology

The geography for the labor market data in this memo covers the counties that Lake county residents tend to travel to for work. The geography was determined using resident worker commute patterns from OnTheMap. This online U.S. Census tool provides mapping and reporting data to show where workers are employed and where they live. Analysis of resident worker commute patterns showed that 80% of Lake County residents commuted to five counties for work: Lake, Sonoma, Mendocino, Napa, and Sacramento.¹ Occupational demand and program supply data cover these five counties. Supply data for Woodland Community College was also included as disaggregated data for the Lake County Campus awards data was not readily available. For more information on the geography, please see the Appendix in this memo.

#### **Findings**

- Comparing occupational demand and program supply for four programs at Woodland's Lake County
  Campus welding, human services, chemical dependency, culinary arts, and accounting show an
  undersupply of local awards to meet occupational demand. The undersupply of awards indicates that
  more workers may be needed to meet occupational demand in each of the counties studied.
- Woodland's Lake County Campus offers training to individuals who live in Lake County but might commute out of the county for work. Commuting pattern data analysis shows that Lake county residents commute across multiple community college economic subregions for work including the Northern Coastal, the North Bay, and the Greater Sacramento subregions. These subregions are part of a larger economic region, which was not included in this data analysis. As a result, awards data and the subsequent "undersupply" analysis may be underestimated.
- The North Center of Excellence recommends Woodland Community College conduct engagement sessions with Lake County employers and trade boards (i.e., chamber of commerce, local trade unions, etc.) to better understand workforce training needs, with a focus on short-term and stackable credentials.

Please contact Ebony Benzing, COE Research Manager, for further information at <a href="mailto:Ebony.Benzing@losrios.edu">Ebony.Benzing@losrios.edu</a> or 916-563-3215.

U.S. Census Bureau. (2021). LEHD Origin-Destination Employment Statistics (2002-2018). https://onthemap.ces.census.gov.



Exhibit 1. Woodland Community College's Lake County Campus - Welding

Тор6	Top6_Title	SOC Code	SOC Title	Skill Category	Typical Education
0956.50	Welding Technology	51-4121	Welders, Cutters, Solderers, and Brazers	Middle Skill	On-The-Job Training, No College Required
		51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	Middle Skill	On-The-Job Training, No College Required

Geograph	y - The program identified specifically targets t	he labor market i	need for trained workers in	
Region/Su	bregion list		County list	Notes
WCC Lake County Campus resident worker geography  Demand - the program(s) prepare students to work in the following occupations			Lake, Sonoma, Mendocino, Napa, Sacramento	N/a
			<b>Supply -</b> On average, how many awards (certificates and degrees) are conferred by community colleges and other postsecondary institutions in the region/county identified?	
SOC Code	Occupational Title	Annual Openings	Institution Type	# of Awards Conferred (Annual Average)
51-4121	Welders, Cutters, Solderers, and Brazers	167	Community Colleges	75
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	52	Other Postsecondary Institutions	0
			Summary of Data Entered:	
			Demand	77
			Supply	26
			Analysis:	
			It's a go! Undersupply indicated	

Community co	olleges with same TOP program:		Other ed prograi	ns with corresponding CIP programs:	
TOP6 - Top Title			CIP - Cip Title		
School Average Annual Awards (2017-18 through 2019-20)			<u>School</u>	Average Annual Awards (2016-17 through 2018-19)	
0956.50 - We	0956.50 - Welding Technology		48.0508 - Welding Technology/Welder		
ARC	52		N/A		
CRC	10				
Napa Valley	3				
Santa Rosa	7				
Woodland	3				





Exhibit 2. Woodland Community College's Lake County Campus - Human Services and Chemical Dependency

Тор6	Top6_Title	SOC Code	SOC Title	Skill Category	Typical Education
2104.00	Human Services	21-1093	Social and Human Services Assistants	Middle Skill	High School Diploma or Equivalent
2104.40	Alcohol and Controlled Substances	21-1094	Community Health Workers	Middle Skill	High School Diploma or Equivalent
		21-1099	Community and Social Service Specialists, All Other	Above Middle Skill	Bachelor's Degree

Geograph	y - The program identified specifically targets the	labor market n	eed for trained workers in	
Region/Su	bregion list		County list	Notes
WCC Lake	County Campus resident worker geography		Lake, Sonoma, Mendocino, Napa, Sacramento	N/a
Demand - occupation	the program(s) prepare students to work in the follos	owing	<b>Supply -</b> On average, how many awards (certificate conferred by community colleges and other postsect region/county identified?	
SOC Code	Occupational Title	Annual Openings	Institution Type	# of Awards Conferred (Annual Average)
21-1093	Social and Human Services Assistants	646	Community Colleges	177
21-1094	Community Health Workers	68	Other Post-secondary Institutions	13
21-1099	Community and Social Service Specialists, All Other	138	Summary of Data Entered:	
			Demand	852
			Supply	190
			Analysis:	
			It's a go! Undersupply indicated	

Community colleges with same TOP program:			Other ed programs with corresponding CIP programs:		
TOP6 - Top Title			CIP - Cip Title		
School Average Annual Awards (2017-18 through 2019-20)			<u>School</u>	Average Annual Awards (2016-17 through 2018-19)	
2104.00 - Hum	2104.00 - Human Services		44.0000 - Human Services, General		
ARC	24		N/A		
CRC	19				
FLC	12				
Mendocino	17				



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Napa Valley	9			
SCC	5			
Santa Rosa	23			
Woodland	15			
2104.40 - Alco	hol and Controlled Substances	51.1501 - Substance Abuse/Addiction Counseling		
ARC	16	InterCoast Colleges - Rancho Cordova	13	
CRC	7			
Mendocino	4			
Santa Rosa	18			
Woodland	8			

# Exhibit 3. Woodland Community College's Lake County Campus - Culinary Arts

Тор6	Top6_Title	SOC Code	SOC Title	Skill Category	Typical Education
1306.00	Nutrition, Foods, and Culinary Arts	35-1011	Chefs and Head Cooks	Middle Skill	High School Diploma or Equivalent
1306.30	Culinary Arts	35-1012	First-Line Supervisors of Food Preparation and Serving Workers	Middle Skill	High School Diploma or Equivalent
		51-3011	Bakers*	Below Middle Skill	No formal education credential

<sup>\*</sup>Although Bakers are considered below middle-skill jobs and have no formal education requirements, jobs typically require long-term on-the-job training. The community college setting may offer training related to the occupation, depending on local employer needs.

Geography - The program identified specifically targets the labor market need for trained workers in					
Region/Subregion list			County list	Notes	
WCC Lake County Campus resident worker geography			Lake, Sonoma, Mendocino, Napa, Sacramento N/a		
<b>Demand -</b> the program(s) prepare students to work in the following occupations			<b>Supply -</b> On average, how many awards (certificates and degrees) are conferred by community colleges and other postsecondary institutions in the region/county identified?		
SOC Code	Occupational Title	Annual Openings	Institution Type	# of Awards Conferred (Annual Average)	
35-1011	Chefs and Head Cooks	172	Community Colleges	120	



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35-1012	First-Line Supervisors of Food Preparation and Serving Workers	835	Other Post-secondary Institutions	0
51-3011	Bakers	233	Summary of Data Entered:	
			Demand	1240
			Supply	120
			Analysis:	
			It's a go! Undersupply indicated	

Community colleges with same TOP program:			Other ed programs w	ith corresponding CIP programs:	
TOP6 - Top Ti	tle		CIP - Cip Title		
<u>School</u>	Average Annual Awards (2017-18 through 2019-20)		<u>School</u>	Average Annual Awards (2016-17 through 2018-19)	
1306.00 - Nut	rition, Foods, and Culinary Arts		19.0501 - Foods, Nutri	tion, and Wellness Studies, General	
ARC 3			N/A		
CRC 8			1205.00 - Cooking and	Related Culinary Arts, General	
FLC	3		N/A		
SCC	1		12.0501 - Baking and Pastry Arts/Baker/Pastry Chef		
1306.30 - Culi	nary Arts		N/A		
ARC	25		12.0503 - Culinary Arts/Chef Training		
CRC	2		N/A		
Santa Rosa	70		Note: Many private postsecondary culinary arts training programs were close		
Woodland 8			in the wake of the U.S. federal financial aid system's gainful employment rule due to low wage outcomes. A private culinary arts training provider in Napa County (The Culinary Institute of America, based in New York) offers associat degrees and below-baccalaureate level certificates. Still, data cannot be disaggregated for the California branch.		





Exhibit 4. Woodland Community College's Lake County Campus - Accounting

Тор6	Top6_Title	SOC Code	SOC Title	Skill Category	Typical Education
0502.00	Accounting	13-2011	Accountants and Auditors	Above Middle Skill	Bachelor's Degree
0502.10	Tax Studies	43-3011	Bill and Account Collectors	Middle Skill	High School Diploma or Equivalent
		43-3021	Billing and Posting Clerks	Below Middle Skill	High School Diploma or Equivalent
		43-3051	Payroll and Timekeeping Clerks	Middle Skill	High School Diploma or Equivalent
		43-3031	Bookkeeping, Accounting, and Auditing Clerks	Middle Skill	Some college, No Degree

Geography - The program identified specifically targets the labor market need for trained workers in							
Region/Su	bregion list		County list	Notes			
WCC Lake County Campus resident worker geography  Demand - the program(s) prepare students to work in the following occupations			Lake, Sonoma, Mendocino, Napa, Sacramento	N/a			
			<b>Supply -</b> On average, how many awards (certificates and degrees) are conferred by community colleges and other postsecondary institutions in the region/county identified?				
SOC Code	Occupational Title	Annual Openings	Institution Type	# of Awards Conferred (Annual Average)			
13-2011	Accountants and Auditors	1033	Community Colleges	278			
43-3011	Bill and Account Collectors	124	Other Post-secondary Institutions	28			
43-3021	Billing and Posting Clerks	285	Summary of Data Entered:				
43-3051	Payroll and Timekeeping Clerks	169	Demand	2811			
43-3031	Bookkeeping, Accounting, and Auditing Clerks	1200	Supply	306			
			Analysis:				
			It's a go! Undersupply indicated				

Community colleges with same TOP program:			Other ed programs with corresponding CIP programs:	
TOP6 - Top Title			CIP - Cip Title	
<u>School</u>	Average Annual Awards (2017-18 through 2019-20)		<u>School</u>	Average Annual Awards (2016-17 through 2018-19)
0502.00 - Accounting			52.0302 - Accounting Technology/Technician and Bookkeeping	
ARC	60		Asher College	14
			(Sacramento)	



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CRC	66	Empire College (Sonoma)	5
FLC	16	MTI College (Sacramento)	9
Mendocino	24		
Napa	11		
Redwoods	14		
SCC	26		
Santa Rosa	45		
Woodland	10		
0502.10 - Tax Studies			
ARC	4		
CRC	2		
Santa Rosa	1		



## Appendix A. Geography and Data Sources

# **A1. Resident Commuting Patterns**

Based on data analysis from On the Map, in 2018, 80% of Lake County, Ca residents were shown to have traveled to primarily five counties for work:

Work Location	Count of Workers	Share of Workers	Community Colleges Serving County
Lake County	9,906	54%	Mendocino     College
Sonoma County	2,015	11%	<ul><li>Napa Valley College</li><li>Santa Rosa Junior College</li></ul>
Mendocino County	1,512	8%	<ul><li>Mendocino     College</li><li>College of the     Redwoods</li></ul>
Napa County	848	5%	Napa Valley College
Sacramento County	405	2%	<ul> <li>American River         College</li> <li>Cosumnes River         College</li> <li>Folsom Lake         College</li> <li>Sacramento City         College</li> </ul>
All other locations	3,699	20%	
Totals	18,385	100%	

### **A2. Data Sources**

Emsi. <a href="https://www.economicmodeling.com/">https://www.economicmodeling.com/</a>. EMSI occupational employment data are based on final EMSI industry data and final EMSI staffing patterns. Wage estimates are based on Occupational Employment Statistics (QCEW and Non-QCEW Employees classes of worker) and the American Community Survey (Self-Employed and Extended Proprietors).

Integrated Postsecondary Education Data System (IPEDS). National Center for Education Statistics. U.S. Department of Education. <a href="https://nces.ed.gov/ipeds/">https://nces.ed.gov/ipeds/</a>.

Management Information Systems (MIS) Data Mart. California Community Colleges Chancellor's Office. <a href="https://datamart.cccco.edu/">https://datamart.cccco.edu/</a>.

U.S. Census Bureau. (2021). LEHD Origin-Destination Employment Statistics (2002-2018). Washington, D.C.: U.S. Census Bureau, Longitudinal-Employer Household Dynamics Program, accessed on March 29, 2021, at <a href="https://onthemap.ces.census.gov">https://onthemap.ces.census.gov</a>. LODES Version 7.5.