

OCEAN ECONOMY

Blue Economy and Climate Action Pathways

Luke Meyer: Director, Los Angeles Center of Excellence for
Labor Market Research

hosted at **MT. SAN ANTONIO COLLEGE**

August 23, 2023

POWERED BY



California
Community
Colleges



C·O·E

CENTERS OF EXCELLENCE
FOR LABOR MARKET RESEARCH



LOS ANGELES COUNTY
ECONOMIC DEVELOPMENT CORPORATION

Collaboratively Advancing Growth and Prosperity for All

California Community Colleges need to ensure that CTE curriculum produces workers with the skills relevant to the regional and statewide economies.

The COE provide **quality labor market data and information** to help colleges respond to workforce needs.

Colleges use the data for:



Investing in new and relevant programs



Assessing labor market needs



Reviewing existing programs



Pursuing grants



The blue economy is defined by the World Bank as the “sustainable use of ocean resources for economic growth, improved livelihoods, and jobs while preserving the health of ocean ecosystem.” The term ocean economy is often used interchangeably with blue economy, though it sometimes refers to only economic activities.

The current ocean economy consists of maritime-based economic activities in six distinct industry sectors

- **Tourism and Recreation**
- **Marine Transportation**
- **Living Resources**
- **Offshore Mineral Resources**
- **Marine Construction**
- **Ship and Boat Building**

LA COUNTY



CALIFORNIA



- Tourism and recreation
- Marine transportation
- Living resources
- Mineral extraction
- Marine construction
- Ship and boat building

Emerging
ocean industries
with potential
for high long-
term growth

- **Industrial Marine Aquaculture**
- **Offshore Wind Energy**
- **Ocean Renewable Energy**
- **Marine and Seabed Mining**
- **Marine Biotechnology**
- **High-Tech Marine Products and Services**
- **Marine Robotics**
- **Maritime Safety and Surveillance**

Ocean Economy

BE CAP

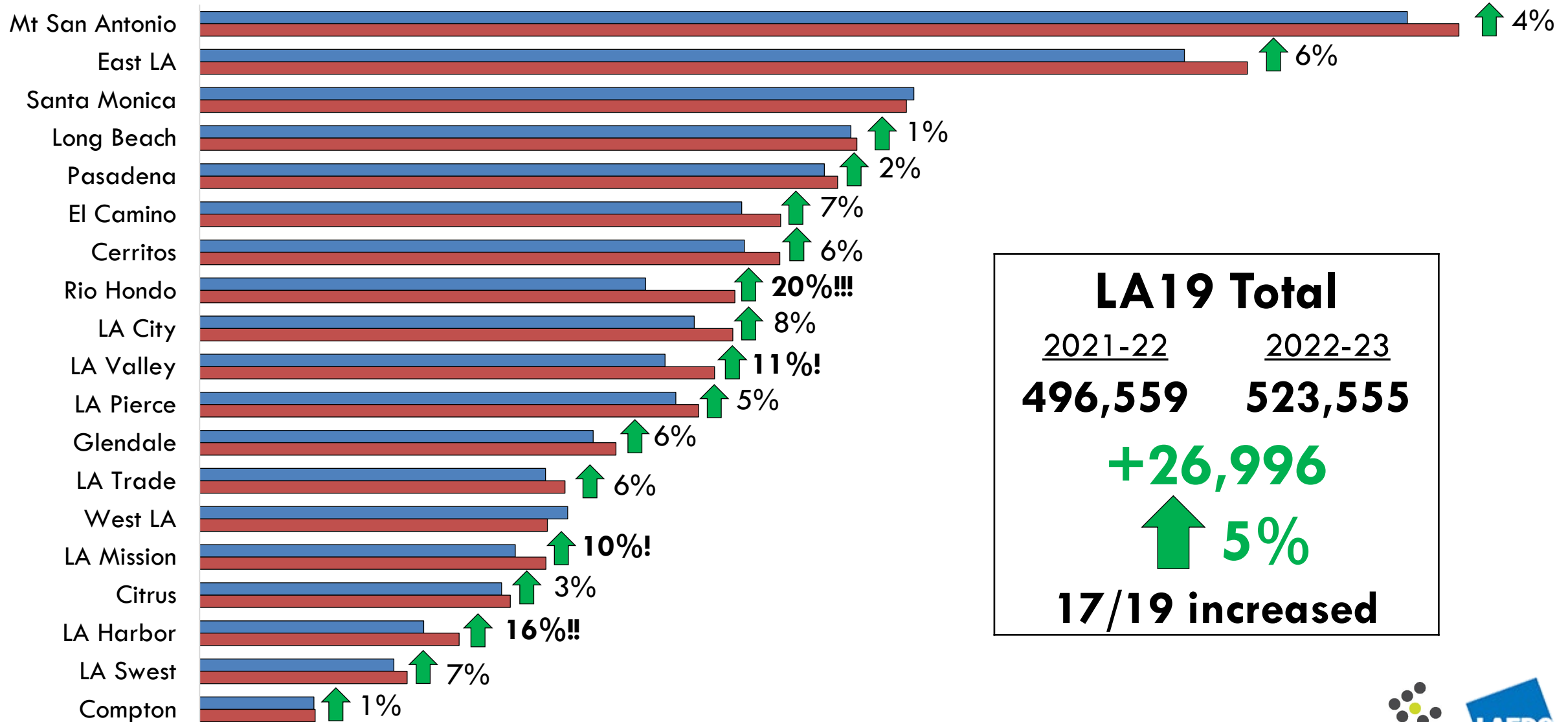
LA Community College Programs

COLLEGE	PROGRAM NAME	HOW DOES THIS PROGRAM RELATE TO THE OCEAN ECONOMY?
Santa Monica	<ul style="list-style-type: none"> • Aquaculture 	The Aquaculture Program is a new, interdisciplinary CTE program at Santa Monica College (Business, Earth Science, & Life Science Departments) that seeks to train students for employment in the emerging field of aquaculture.
LA Mission LA Valley LA Southwest Long Beach City	<ul style="list-style-type: none"> • Robotics • Robotics and PLCs • Fundamentals of Robotics • Robotics Welding Automation 	Underwater robotics is a rapidly growing field. These existing robotics programs provide the necessary knowledge, skills, and abilities for students pursuing careers as robotics, calibration, electro-mechanical, and mechatronics technologists and technicians. With additional experience and education, program completers set themselves on a path towards employment as a robotics engineer.
LA Pierce LA Trade-Tech Mt. San Antonio Pasadena City Rio Hondo	<ul style="list-style-type: none"> • Geographic Information Systems 	Mapping the ocean floor is critical to understanding the ocean ecosystem as a whole. These GIS programs provide students with the skills necessary for ongoing ocean exploration and mapping.
East LA LA Harbor LA Valley Long Beach City Mt. San Antonio	<ul style="list-style-type: none"> • Oceanography • Earth Science 	Knowledge of plate tectonics, coastlines, tides, marine resources, and the pollution sources that threaten these are essential to the ocean economy.

Ocean Economy

BECAP

LA Community College Students



LA19 Total

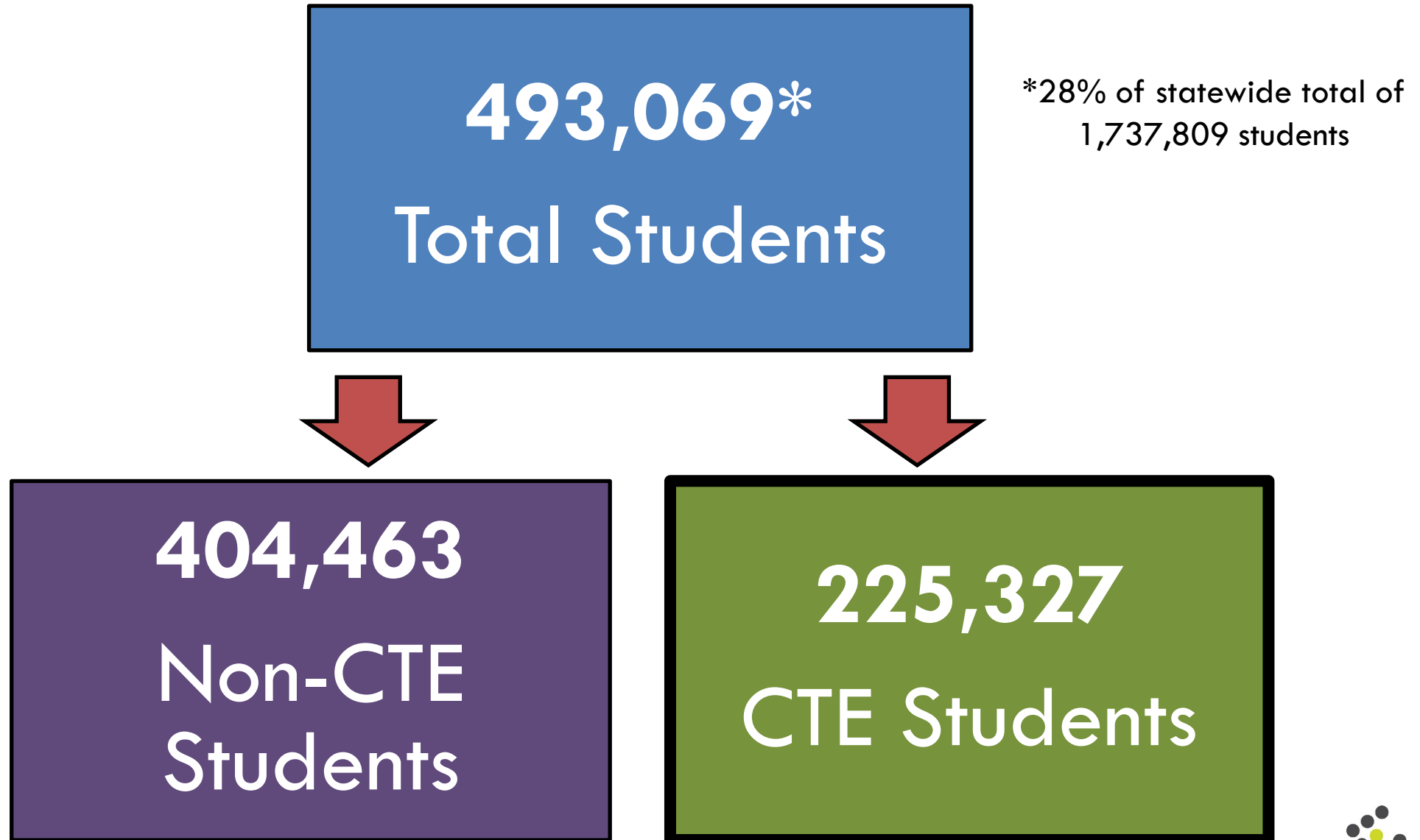
2021-22	2022-23
496,559	523,555
+26,996	
↑ 5%	
17/19 increased	

Source: MIS Data Mart

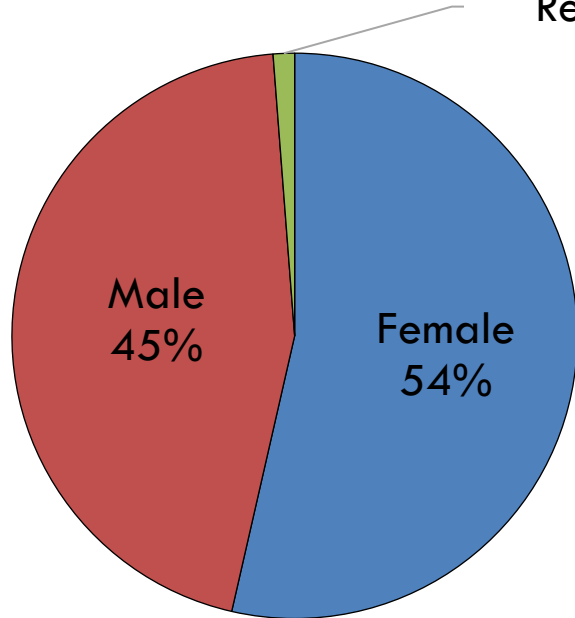
■ 2021-22 Student Headcount

■ 2022-23 Student Headcount





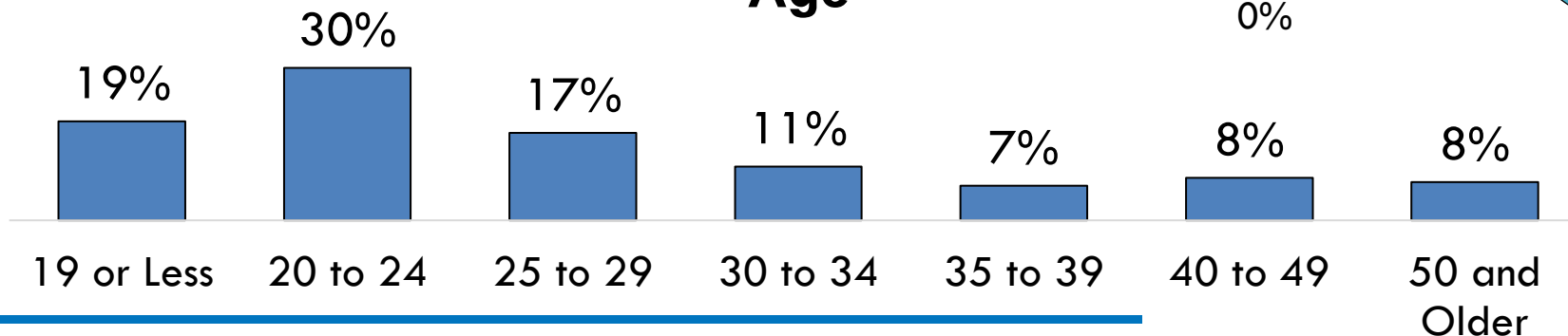
Gender



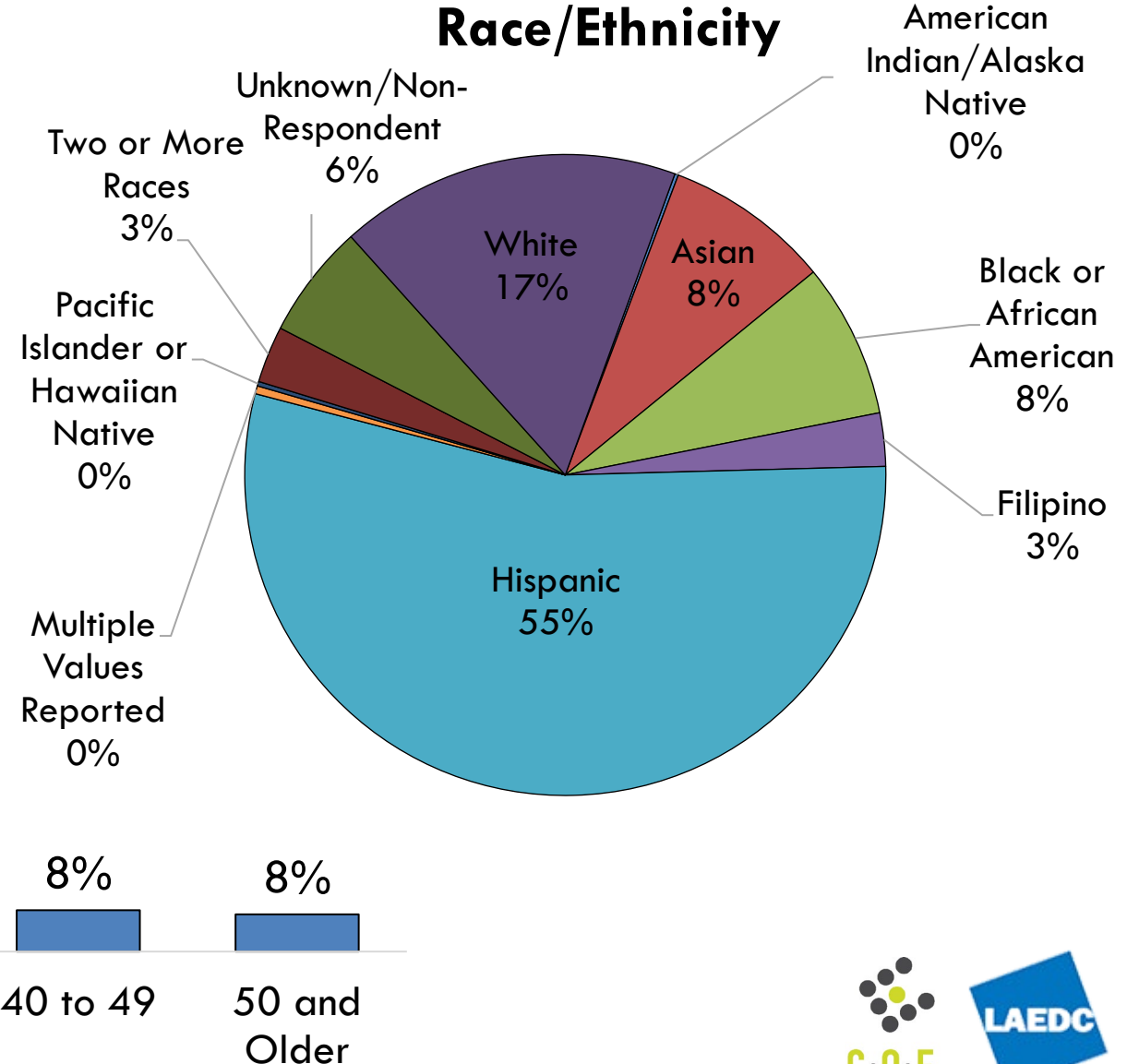
Unknown/Non-Respondent
1%

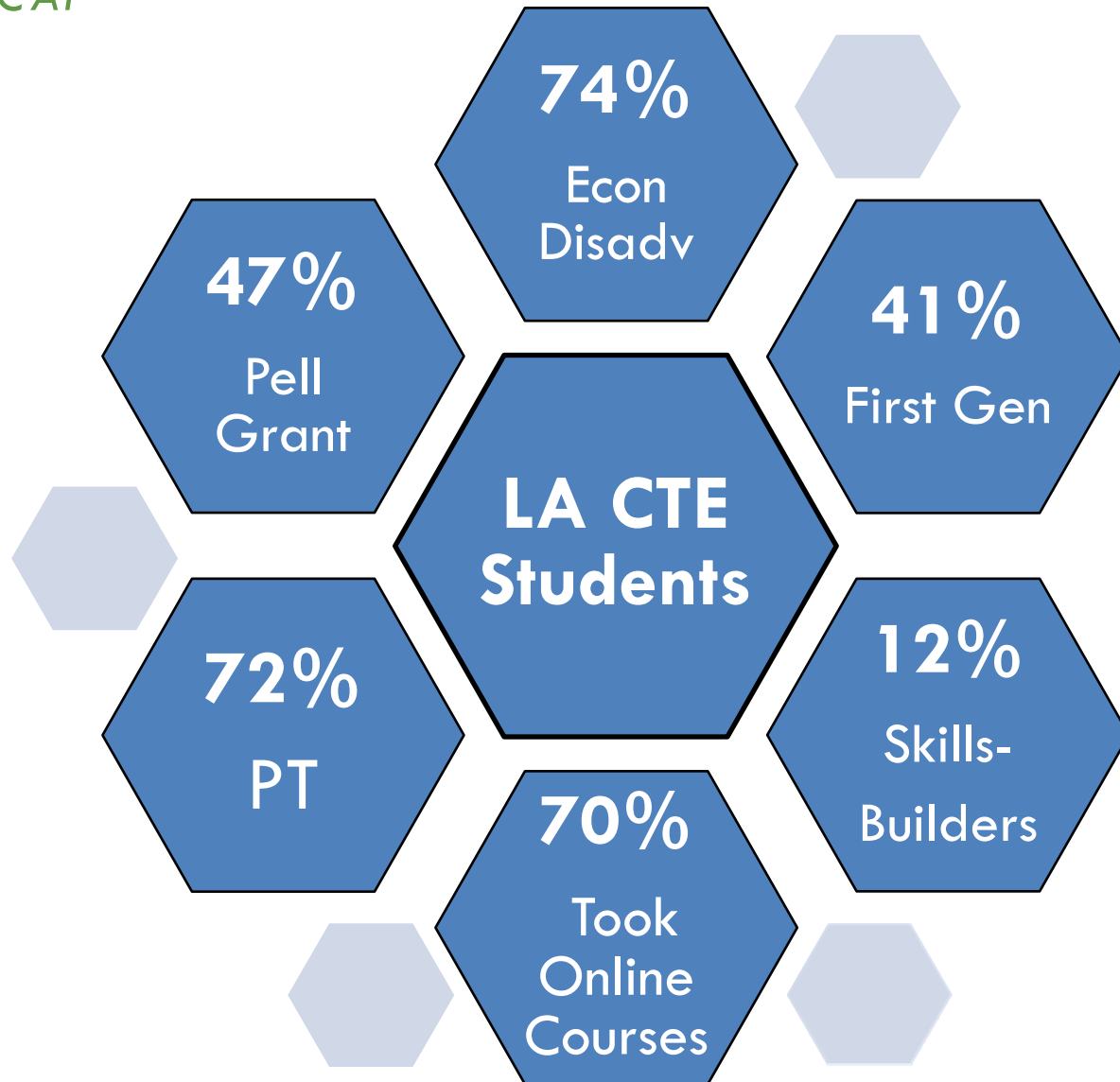
Just over half of all CTE students in LA are female, nearly half are under the age of 24, and our students are largely representative of the communities in which their colleges are located.

Age



Race/Ethnicity





- Over **200 unique CTE Programs** in LA Basin at 19 geographically-dispersed colleges
- **28,889 Average Annual Awards Issued**
 - 14, 479 Associate Degrees (50%)
 - 11,839 Certificates (41%)
 - 2,012 Noncredit Awards (7%)
 - 479 Other Credit Awards (2%)
 - 80 Bachelor's Degrees (<1%)

CONTACT INFORMATION

LUKE MEYER

(909) 274-6106

lmeyer7@mtsac.edu