

COLLEGE OF  

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**MARIN**

**Auto, ACRT, Electronics Technology  
Advisory Committee Meeting**

May 4, 2022

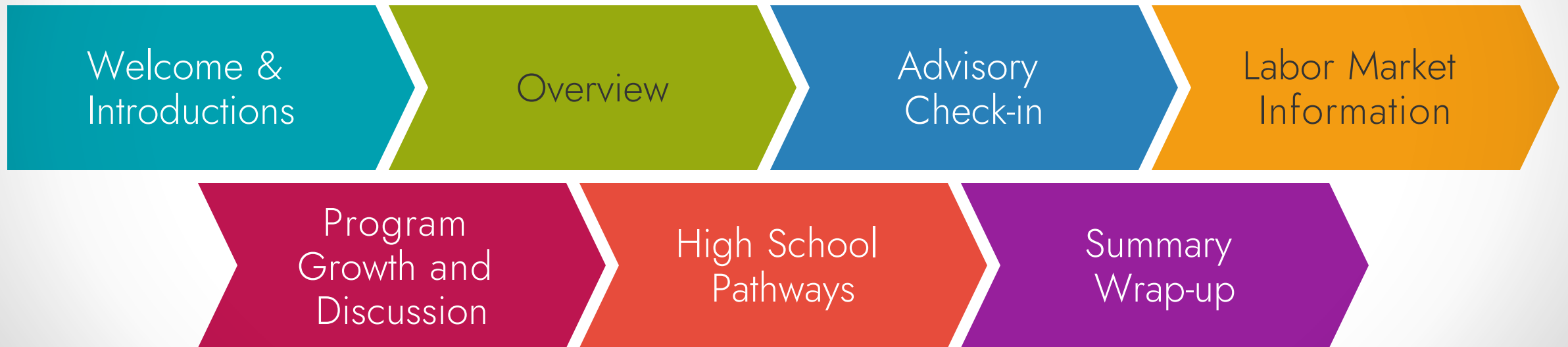


# Hello!

Please share your name, role, organization.

# AGENDA

Where We Are. Where We're Going.



# Overview

Alina Varona, Dean of Career Education and Workforce Development

# WHY ADVISORY COMMITTEES?

## Centering the Community in Community College Practice and Programs

### Title 5: §55601[1]

- The governing board of each community college district participating in a vocational education program shall appoint a vocational education advisory committee
- Committee will develop recommendations on the program and be a liaison between the district and potential employers.

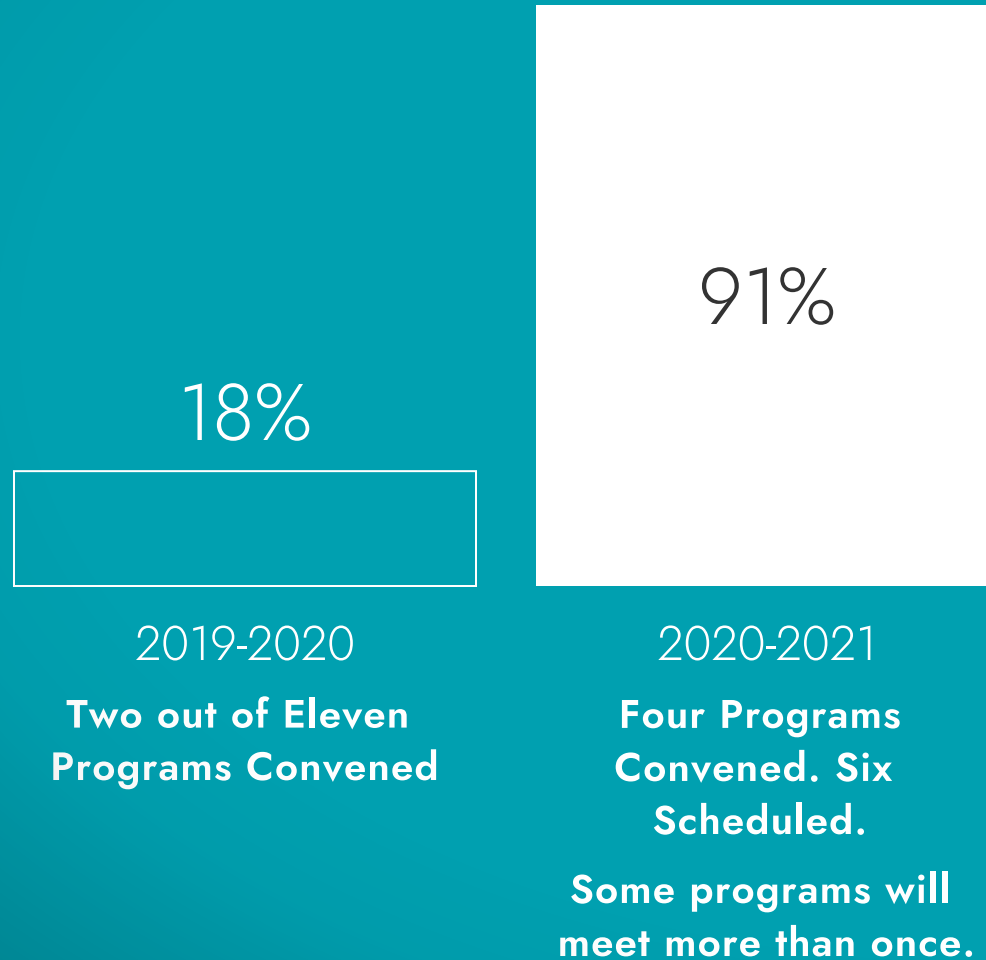
### Committee Members

- Shall have one or more representatives of the general public
- Must be knowledgeable about the educational needs of disadvantaged populations
- Students, teachers, business, industry, the college administration, and the field office of the Employment Development Department

### Funding Requirements

- Extensive business and industry involvement
- Evidenced by not less than one annual business and industry advisory committee meeting
- (Section 135(b) of Perkins IV[2]).

# Meaningful Advisory Committee Participation



35% increase in advisory member participation to date



# EMPLOYMENT DATA

18 months after college completion-

85% Goal

77%



Found a job very closely or closely related to their field.

23%

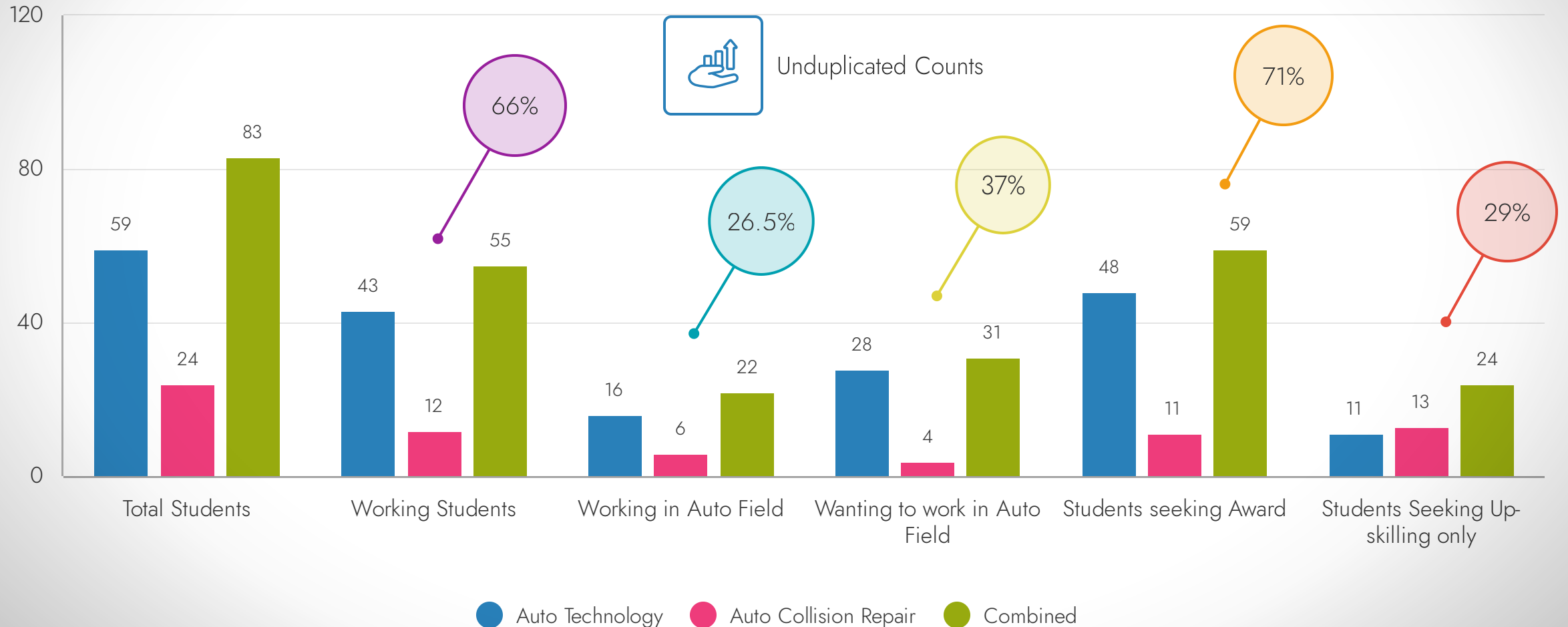


Reported job is not closely related to their field.

206 Student respondents

# AUTO/ACRT Student Employment Status and Goals

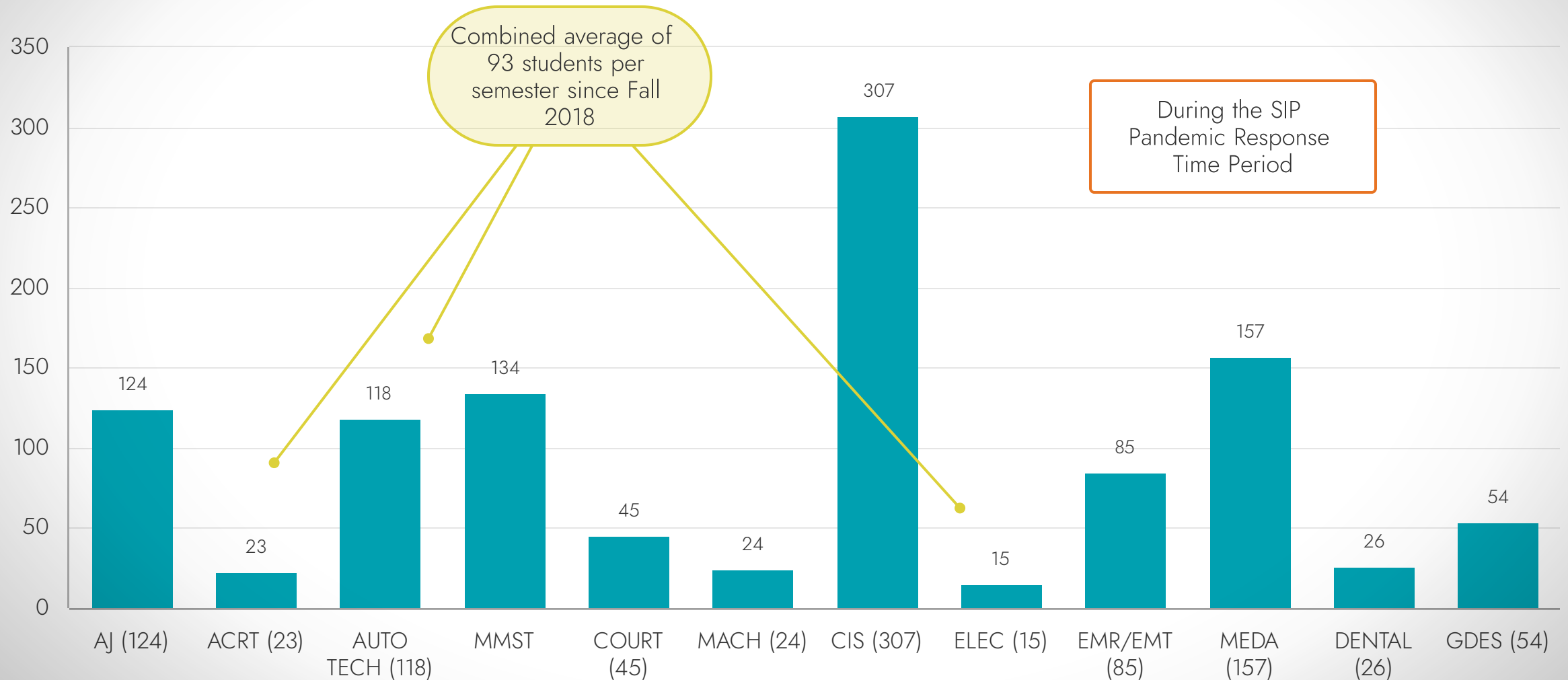
Current Semester - Spring 2022





# Enrollments by Program

Academic year **2020-2021** unduplicated headcount by program

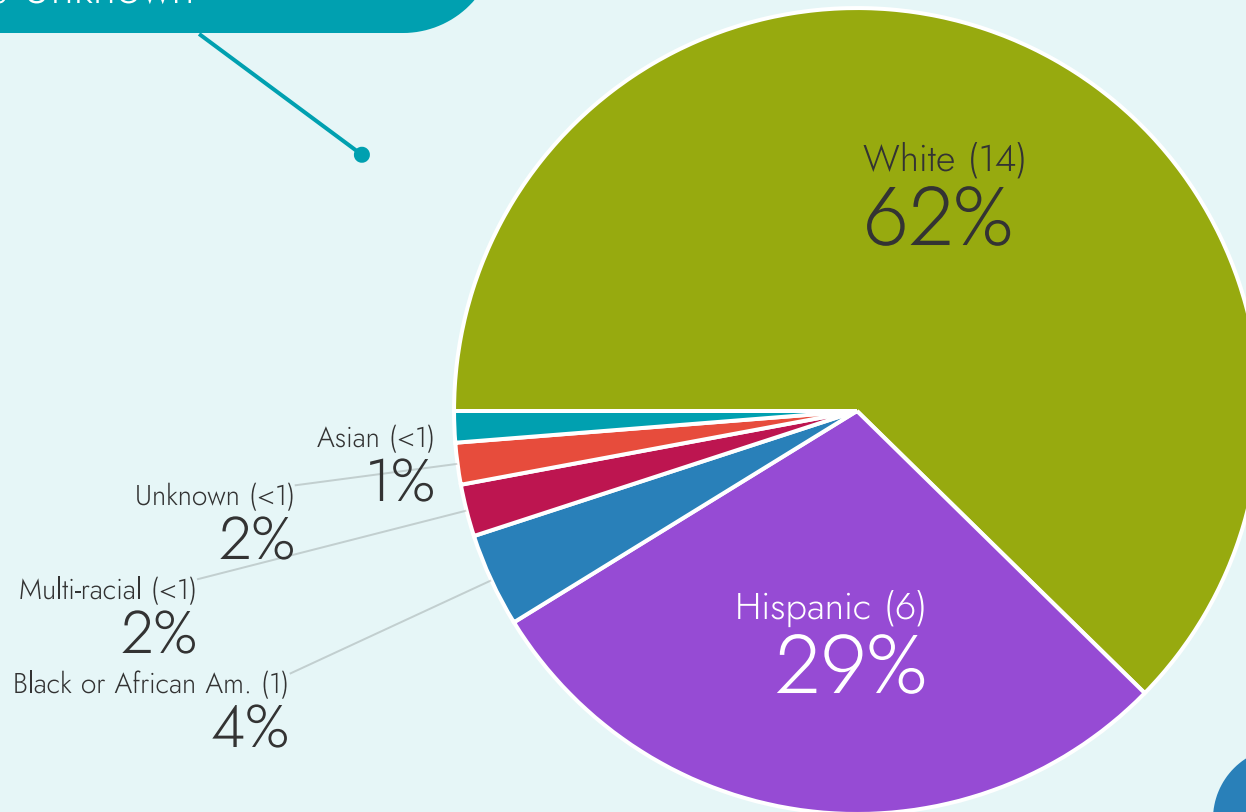


# Average Student Demogra

## Automotive Collision and Repair Techno

2018 - 2021

80% Male (18 avg. per sem.)  
12% Female (3 avg. per sem.)  
8% Unknown



## STUDENT CHARACTERISTICS

Gender: Male 39%  
Female 60%;  
Median Age: 23  
Race/Ethnicity:  
Asian: 487 (7%)  
Black/African American: 207 (3%)  
**Hispanic: 1,985 (30%)**  
Multi-racial: 408 (6%)  
Native American: 14 (0.2%)  
Native Hawaiian/Pacific Islander: 13 (0.2%)

Avg  
cc

**White: 3,211 (48%)**

# Average Student Demogra

## STUDENT CHARACTERISTICS

Gender: Male 39%  
Female 60%;  
Median Age: 23  
Race/Ethnicity:  
Asian: 487 (7%)  
Black/African  
American: 207 (3%)  
**Hispanic: 1,985  
(30%)**  
Multi-racial: 408 (6%)  
Native American: 14  
(0.2%)  
Native  
Hawaiian/Pacific  
Islander: 13 (0.2%)

### Automotive Technology 2018 - 2021

88% Male (56 avg. per sem.)  
11% Female (7 avg. per sem.)  
1% Unknown

Am. Indian/Alaska Native (2)

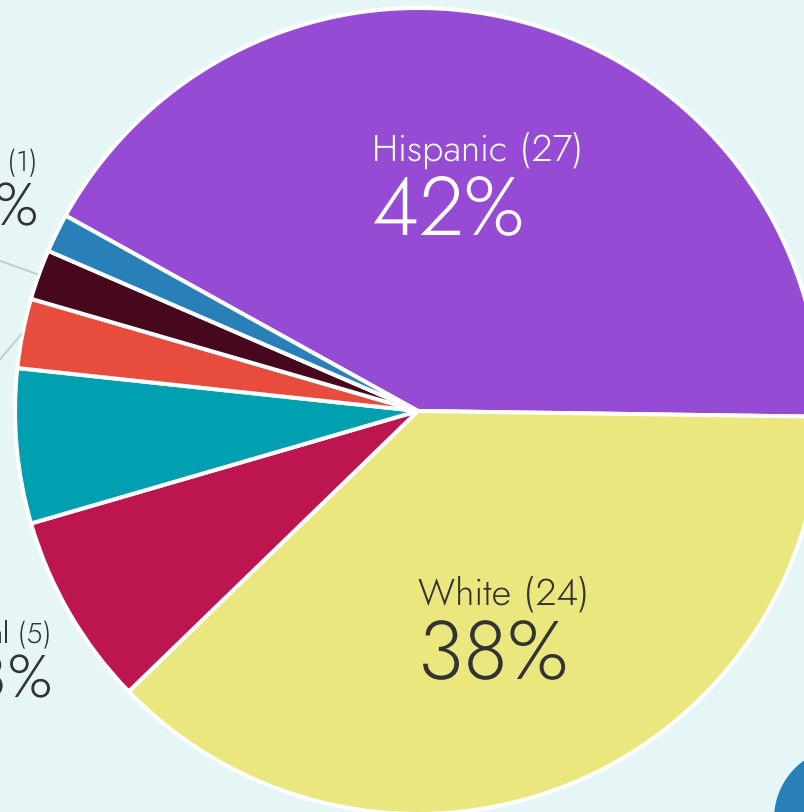
2%

Black or African Am. (1)  
2%

Unknown (2)  
3%

Asian (4)  
6%

Multi-racial (5)  
8%



White (24)  
38%

Avg  
cc

**White: 3,211 (48%)**

# Program Outcomes

## Automotive Collision and Repair Technology

2018 - 2021

### **Persistence** - First Time

Students Fall to Spring

- Female: **8%**
- Male: **56%**

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Program Persistence Overall:

**55%**

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Lower than the College persistence rate: **73%** average

Course **Retention** by Gender (%)

- Women: **100%**
- Men: **88%**

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Program Retention Overall:

**94%**

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Above College average at **85%**

### **Program Success** -

Awards

Fall 2018 - Spring 2021

- Certificates: **4**

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### **Course Success** -

Overall course success rate is:

**88%**

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Above College average at **77%** for 2019-20

**Persistence** - the students remains in a class to completion

**Retention** - the students complete one class and continue to another course in a following semester

# Program Outcomes

## Automotive Technology

2018 - 2021

### **Persistence** - First Time Students Fall to Spring

- Female: **8%**
- Male: **56%**

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Program Persistence Overall:

**55%**

---

Lower than College persistence rate:  
**73%** average

### Course **Retention** by Gender (%)

- Female: **93%**
- Male: **94%**

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Program Retention  
Overall:

**94%**

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Above College average at  
**85%**

### **Program Success** - Awards

Fall 2018 - Spring 2021

- Certificates: **41**
- Degrees: **4**

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### **Course Success** -

Overall course success rate is:

**92%**

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Above College average at  
**77%** for 2019-20

# Advisory Check-In

# PRIORITIES AND CURRENT LANDSCAPE

## Advisory Member Share Outs & Discussion

**What has this last year looked like for your field?**



### Staffing and Recruiting

- Where do you find your candidates?
- What wages can be expected for entry level positions? Skills required?
- What skills are needed for middle-skilled technicians?
- With more electric vehicles emerging what training should students gain to ensure to meet market demands?



### Community Partnership & Impacts

- What are **your current priorities** and needs for hiring?
- What are the urgent concerns of the Auto/ACRT workforce today?
- How should we best prepare our students to be qualified and competitive?



### Other Key Items?

- Any other potential technology, training, or emerging sectors?

# Labor Market Information Overview

Heather Rahman, Workforce Specialist



Regional Counties:  
Marin, Napa,  
Sonoma, Solano,  
San Francisco and  
San Mateo

# Regional Labor Market Information

Sources: Centers of Excellence Demand Tables  
and O\*Net Online

Per committee:  
"upper-end" body  
shops will hire new  
employees at rate  
of \$25/hour =  
\$48,000/year

Automotive COM Offerings	Occupation	Job Titles	Average Annual Earnings	Annual Job Openings projected through 2028
Certificate or A.S. in ACRT, Master Collision Repair	Automotive Body and Related Repairers	Auto Body Repair Tech, Auto Body Repairman, Collision Repair Tech, Refinish Tech	\$67,714	123
Certificate or A.S. degree in AUTO, Master Repair Technician	Automotive Service Technicians and Mechanics	Auto Mechanic, Automotive Drivability Tech, Auto Service Technician, Master Auto Technician, Service Tech	\$56,988	557
Certificate, Automotive Electronics Specialist	Electronic Equipment Installers and Repairers, Motor Vehicles	Automotive Technician, Electronics Technician, Installation Technician	\$45,000	122

<http://coeccc.net/>  
<https://www.onetonline.org/>



# Automotive Technology, Auto Collision and Repair and Electronics Technology

**Ron Palmer, Instructor and Department Chair**

**Mark Barrall, Instructor**

Program Updates, Technology Needs, Hiring Needs, New Developments

# Current Program Offerings

## Automotive Technology

- A.S. Degree in Automotive Technology, Master Repair Technician
- 
- Certificate, Automotive Chassis and Drivetrain Specialist (A3, A4, A5)
  - Certificate, Automotive Engine Specialist (A1, A9)
  - Certificate, Automotive Technology: Master Repair Technician

## Auto Collision and Repair

- A.S. Degree, ACRT, Master Collision Repair
- 
- Certificate, ACRT, Painting and Refinishing
  - Certificate, ACRT, Structural and Nonstructural Damage Repair
  - Certificate, ACRT, Master Collision Repair

## Electronics Technology

- Certificate of Achievement, Automotive Electronics Specialist (A6, A7 & A8)

# Awards 2015 - 2020

Pre-pandemic

	ACRT Master Collision Repair	ACRT Painting and Refinishing	Auto Chassis Repair Tech	Auto Electrical Tech	Auto Emissions Tech	Auto Master Repair Tech	<b>Total</b>
Certificates	10	2	20	22	20	28	102
Degrees						9	9



# New Certificate Offering

## Electric Car Technology Certificate

### Electric Car Technology Certificate of Competency (9 units)

Students will earn this certificate by completing the courses listed below demonstrating competency in electrical fundamentals, National Certification in use of electronic meters, and electric car design and maintenance.

Electrical 120 - **Electric and Alternative Energy**

Electrical 260 - **Electric Instrument Certification**

Electrical 292 or Auto 292 - **Electric and Hybrid Vehicle Design and Maintenance**

### Program Student Learning Outcomes

- Demonstrate an understanding of the safety requirements necessary to succeed as a Electric Car Repair Technician
- Demonstrate the skills and competencies for the automotive specialty area of electrical, high voltage electrical and high voltage batteries.
- Display the basic skills necessary to become a lifelong learner in order to keep abreast of the latest technological changes in both hybrid and electric cars as measured in attendance in seminars and ASE Certifications

Thoughts? Do you endorse this certificate?



# New Certificate Offering

Solar Technology Certificate

Thoughts?  
Do you  
endorse this  
certificate?

## Solar Technology Certificate of Competency (9 units)

- Electrical 120 - **Electrical and Alternative Energy**
- Electrical 200 - **Solar Photovoltaic Design**
- Electrical 260 - **Electric Instrument Certification**

## Program **Student Learning Outcomes**

- Demonstrate an understanding of the safety requirements necessary to succeed as a Solar Technician
- Demonstrate the skills and competencies for the electrical specialty area of high voltage DC electrical, high voltage batteries and solar electrical interconnections.
- Display the basic skills necessary to become a lifelong learner in order to keep abreast of the latest technological changes in the solar industry.



# New Certificate Offering

Sustainability Electrical Technology

Thoughts?  
Do you  
endorse this  
certificate?



## Solar Technology Certificate of Competency (9 units)

- coming soon

## Program **Student** **Learning Outcomes**

- coming soon



# Coming Soon - **Hybrid** Class Options



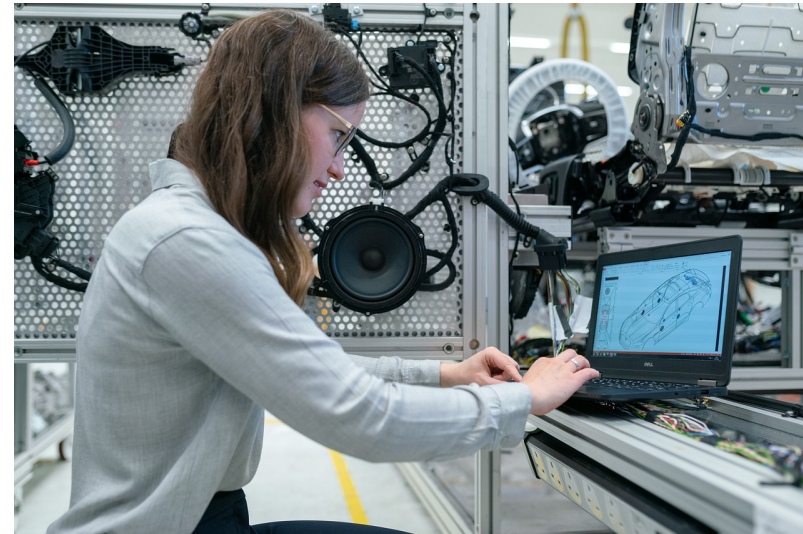
Hybrid classes can be conducted online or in-person

## **Fall 2022 - Spring 2023**

- AUTO/ACRT 100 - Career/Measurement/Math
- AUTO 110 - Intro to Automotive Program
- AUTO 113 - Spec. Electronic Training
- AUTO 114 - Auto Engine Performance
- AUTO 118 - Brakes/Alignment/Suspension
- AUTO 215 - Vehicle Service

- 
- ACRT 101 - Basic Sheet Metal Operations
  - ACRT 102 - Intro to Auto Collision Repair
  - ACRT 103 - Nonstructural Analysis

- 
- Electrical courses  
Etc.



Allows industry working students to take classes and improve skills to meet their schedules and pace





# About the Tool Sets

## Auto Tech Starter Set

- Most basic tools needed to learn the fundamentals of their trade
- Basic pliers, screwdrivers, wrenches and sockets are included in this set giving you the tools to meet most instructor's minimum requirements

## Collision Tech Starter Set

This set includes specific tools to get you started with auto body repair. Set features hammers, pneumatic palm sander, paint spray gun, and other assorted tools.

## Auto Body Add-on Set

- A great selection of tools for most collision repair needs
- Includes body hammers, gloves, snips and clamps used in today's body shops



# High School Connection

# Building Pathways

## High School Offerings

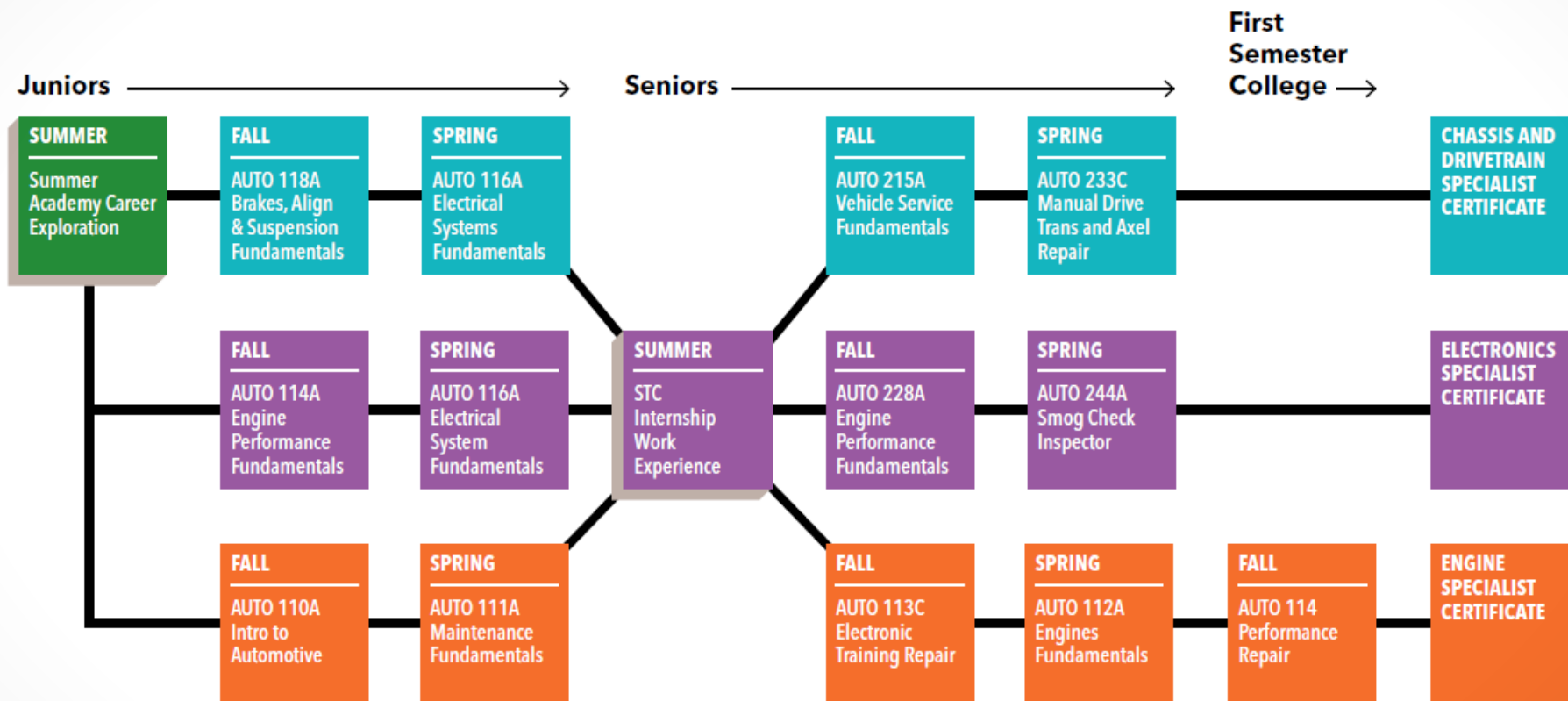
looking to  
add a  
3rd  
section

TERRA LINDA H.S. (Marin County ROP Courses)	TALMAPAIS H.S.	Car Appreciation and Preservation Program - Terra Linda H.S.
Automotive Technology 1 (Articulated with COM AUTO 110)	Automotive Technology 1 (Articulated with COM AUTO 110)	Afterschool program for all Marin H.S. students; Meet 1/week
Automotive Technology 2 (Articulated with COM AUTO 111)	Automotive Technology 2 (Articulated with COM AUTO 111)	Involves field trips to visit auto shops; learn about cars, vintage, upkeep and restoration.
Teacher: John Callas	Teacher and Lead of the HS Auto Advisory Committee: Dan Silin	John Callas (lead teacher) and Charlie Goodman
Headcount: 50 students	Headcount: 50 students	Headcount: 20 students

# Auto Technology

## High School-to-College Career Pathway Map

academics.marin.edu/program/auto



To get first-hand knowledge of careers,  
join the Bright Futures Speaker Series at  
[marinschools.org/Page/8304](http://marinschools.org/Page/8304).



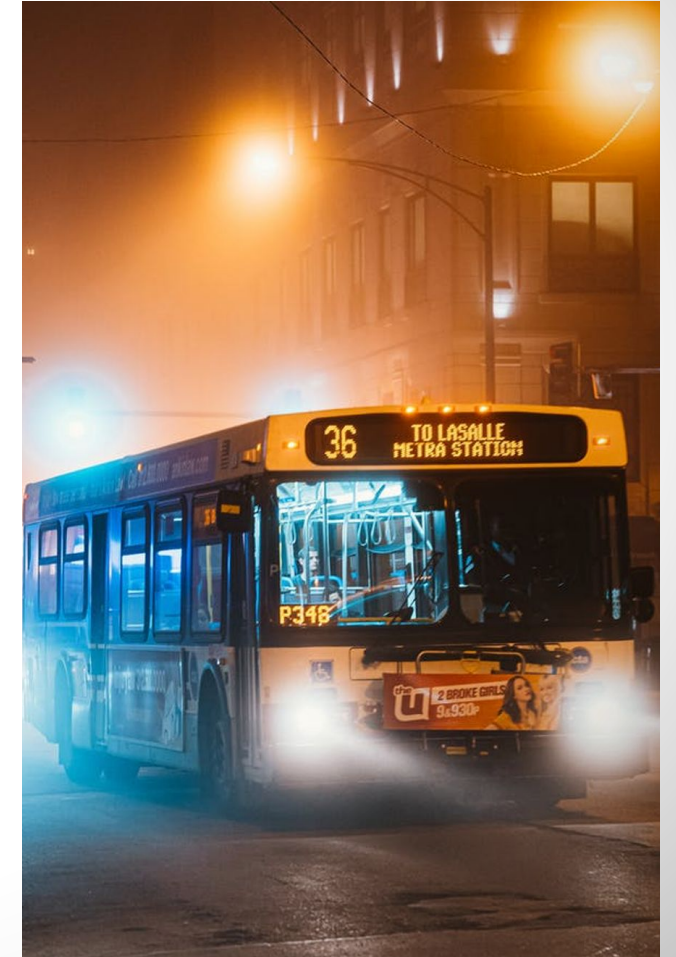
### Earn College Units

If you've come this far, you have either completed certificates in Chassis Drivetrain Specialist or Electronics Specialist. If you're on the Engine Specialist pathway, you only have one more class to go before you get to COM!

**What's coming up...**

# Golden Gate Transit Bus Coach Operator **Apprenticeship**

- Builds equity to help lift priority population communities
- Reforms the hiring practice for Golden Gate Transit
- Starting salary at \$28.00/hour in the first 6 months + benefits
- Supports economic vitality by reinforcing service along 101 corridor
- Provides pathway for degree attainment
- Leads to career advancement and increase in wages



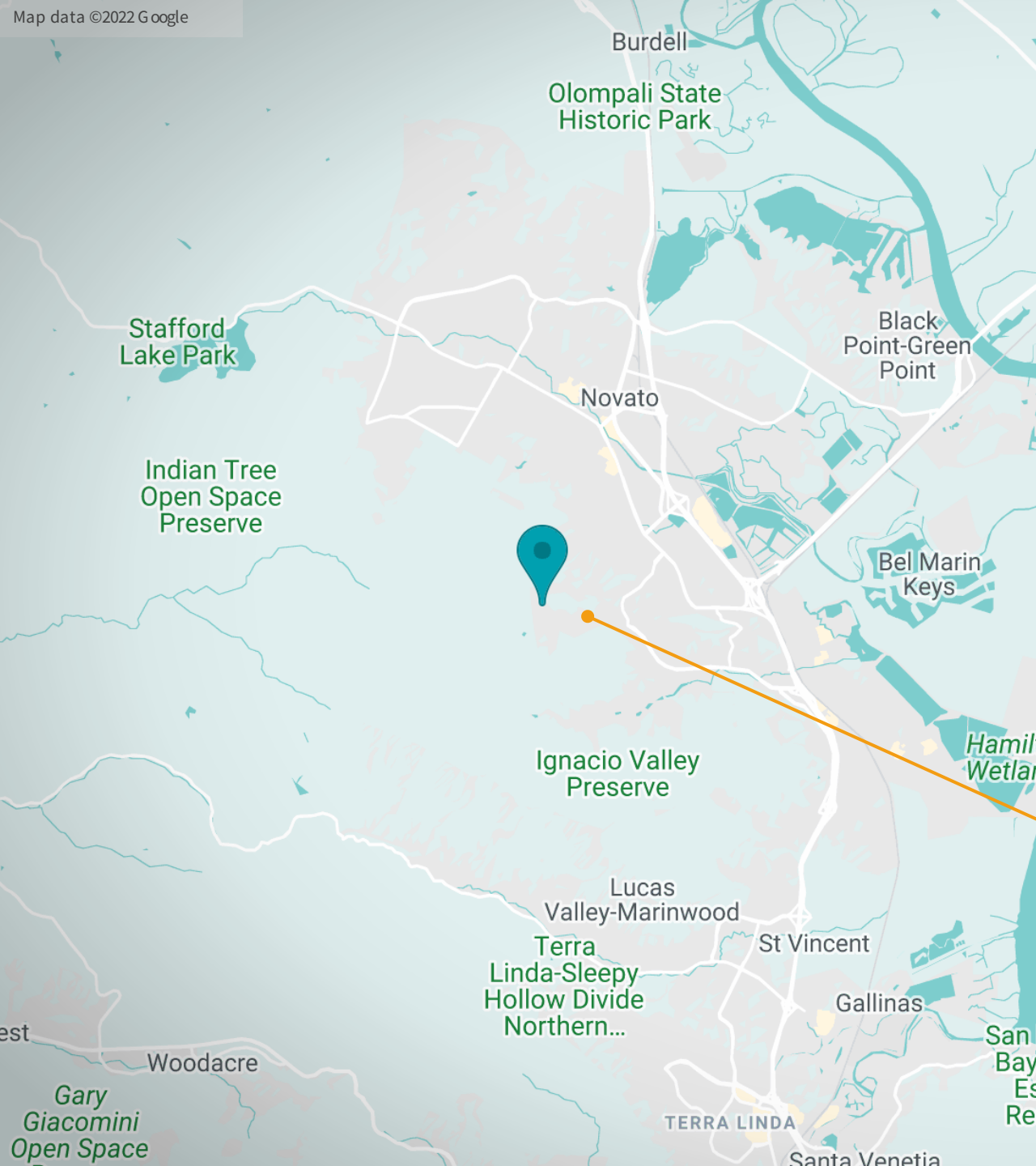
Summary/Wrap-up

Thoughts? **Questions?**

NEXT STEPS







# Thank You!

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**College of Marin, Indian Valley Campus**