college of MARIN

Computer Information Systems Advisory Committee Meeting

Monday, May 16, 2022

Hello!

Please share your name, role, organization.

AGENDA

Where We Are. Where We're Going.





Alina Varona, Dean of Career Education and Workforce Development

Overview of Career Education and Workforce Development



2.1 million students at 116 colleges

HTTPS://WWW.CCCCO.EDU/ABOUT-US/CHANCELLORS-OFFICE/DIVISIONS/WORKFORCE-AND-ECONOMIC-DEVELOPMENT

Career Education: Programs

://workforce.marin.



- Administration of Justice
- Auto & Industrial

Auto Collision Repair; Auto Technology; Electronics; Machine & Metals

- Computers & Multimedia
 Computer Information Systems; Graphic
 Design; 3D, Video, Game Dev;
 Web Design and Development; MS
 Office Certification; Cyber Security
- Court Reporting

• Health Sciences

Dental Assisting; Emergency Medical Technician Training; Medical Assisting

- Organic Farming
- Education 2 Career (E2C) Construction Program
- Summer Career Academies
- Short-Term Career Training Programs (12 Weeks)

Business Start-Up; Small Business Management; Office Technology: online selling, accounting, office applications, social media marketing

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

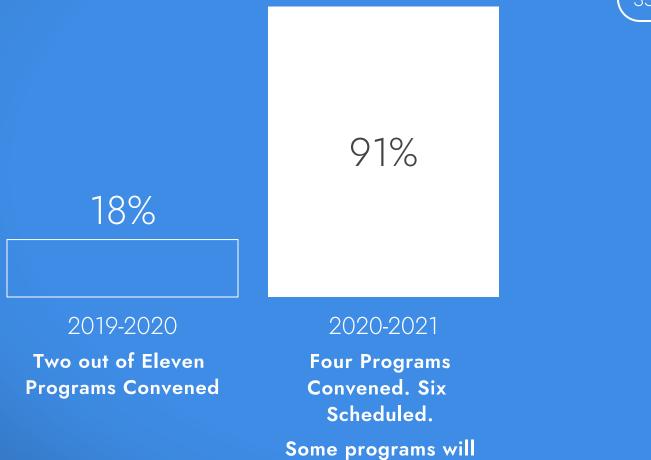
- Shall have one or more representatives of the general public
- Must be knowledgeable about the educational needs of disadvantaged populations
- Students, teachers, business, industry, the college administration, and the field office of the Employment Development Department

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]).

https://www.asccc.org/content/cte-advisory-committees-making-them-work-you

Meaningful Advisory Committee Participation



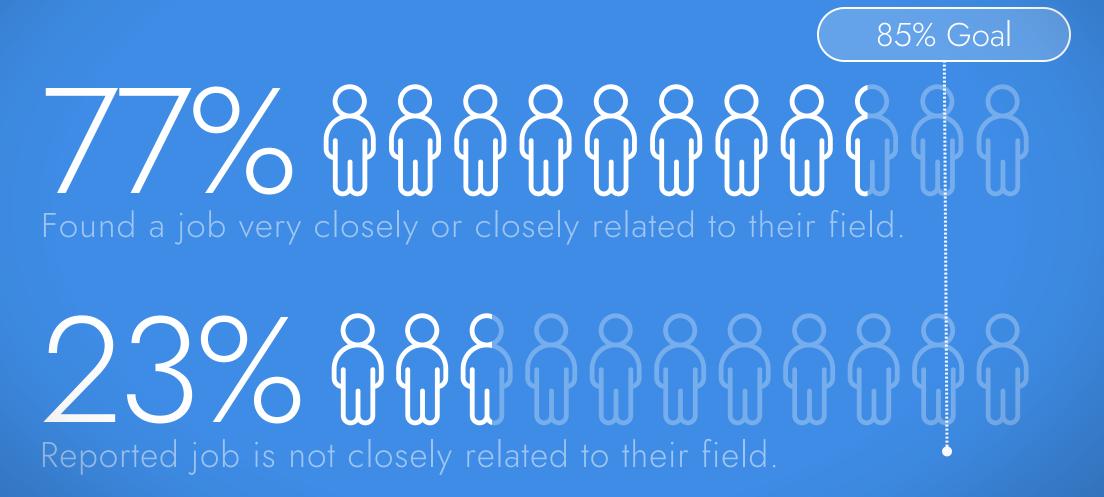
meet more than once.

35% increase in advisory member participation to date



EMPLOYMENT DATA

18 months after college completion-



What is **Computer Information Systems** (CIS)?

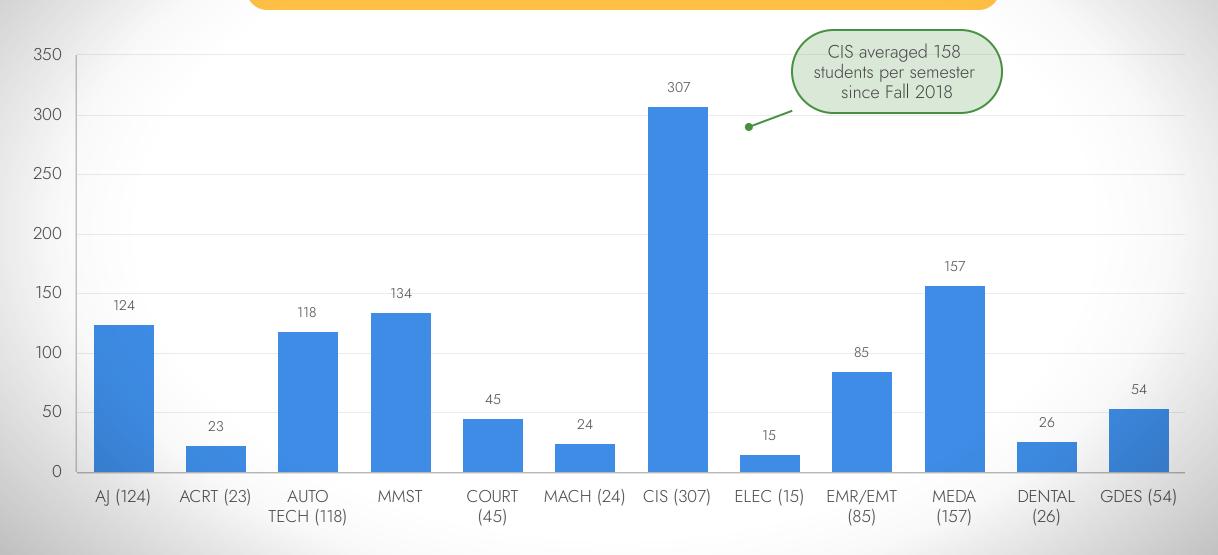
- Courses provide "hands-on" computer use that emphasizes the development of the skills necessary for employment and personal use of computers.
- Program specialties include desktop network, desktop publishing, microcomputer manager, and microcomputer programmer.
- Curriculum touches upon:

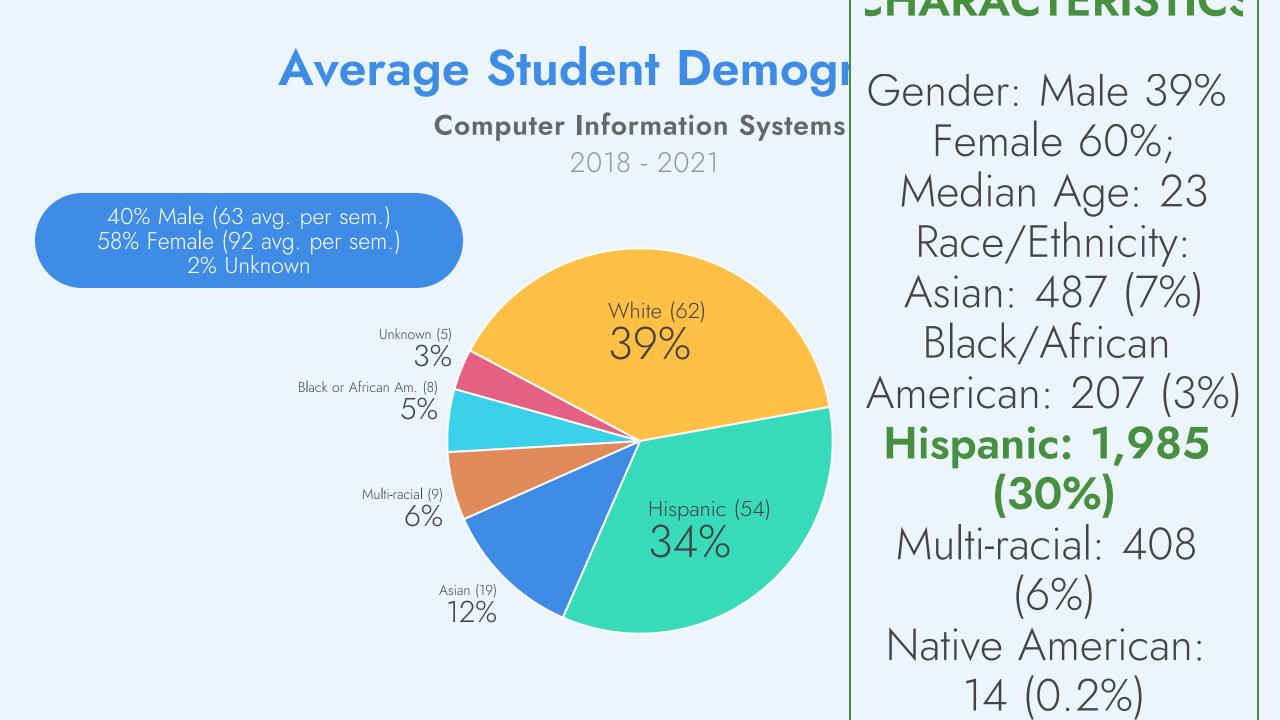


Languages/Applications	Courses also cover:		
JAVA	Cascading Screen Style (CSS)		
JavaScript	Content Management Systems		
HTML	Integrated Drive Electronics		
PYTHON	SEO		
SQL	Security		
BASIC			
WordPress			

Enrollments by Program

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





Program Outcomes

Computer Information Systems

2018 - 2021

Persistence - First Time Students Fall to Spring

- Female: **100%**
- Male: **92%**

Program Persistence Overall:

95%

Higher than College persistence rate: **73%** average Course **Retention** by Gender (%)

- Female: **85%**
- Male: **82%**

Program Retention Overall:

84%

Aligned closely to College average at **85%**

Program Success -Awards Fall 2018 - Spring 2021 • Certificates: 3 • Degrees: 5

• Transfers: **2**

Course Success -

Overall course success rate is:

76%

Aligned closely to 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



Needs and Priorities

• What are your current priorities and needs for hiring?

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Training & Professional Development



Other Key Items?

- What should we be aware of to support our future students?
- Potential technology, training, or emerging sectors?



Community Partnership & Impacts

• How should we best prepare our students to be qualified and competitive?

Labor Market Information Overview

Heather Rahman, Workforce Specialist

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

Regional Labor Market Information

http://coeccc.net/ bs://www.onetonline.ou

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

Current COM CIS Offerings	Occupations (Typical Educational Requirements)	Alternative Job Titles	Average Annual Earnings	Annual Job Openings projected through 2028
A.S. Degree in Computer Information Systems	Computer Systems Analysts (Bachelor's degree)	Applications Analyst, Business Systems Analyst, ISA, IT Analyst, Systems Analyst	\$106,947	1,030
Certificate of Achievement, Computer Information Systems	Information Security Analysts (Bachelor's degree)	Information Security Officer, ISSO, IT Specialist	\$127,343	168
COMP TIA A+ Certification - Cyber Security	Computer User Support Specialists (some college)	Computer Technician, Desktop Support Technician, Help Desk Analyst, IT Specialist	\$70,111	1,199
MS Office and Adobe Certifications	Computer Occupations, All Other (Bachelor's degree)	Information Technology Project Managers, Document Management Specialists, Database Administrators	\$98,953	1,483
	Office and Administrative Support	Administrative Assistant, Office Managers, Bookkeeping, Data Management Specialist	\$56,660	6,960

Growing Our Program

Lance Barthelemy, Instructor -Microsoft, Quickbooks and CompTIA Certificates

Manny Kang, Doctor of Information Technology and Instructor - CIS Certificates/Degrees

CIS Current Offerings

Degrees and Certificates of Achievement: Quickbooks Certification

+ NFW:

- Associate's of Science Degree in Computer Information Systems (21 units + general education courses = 60 units total)
- Certificate of Achievement, Computer Information Systems (21 units)

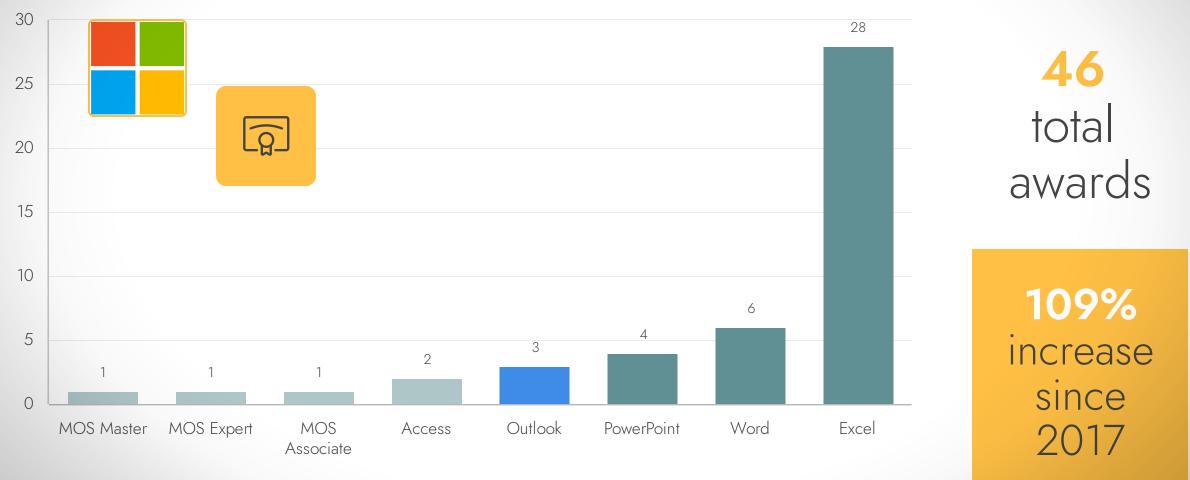


MS Office Specialist Certifications:

- **Excel** (CIS 118 & CIS 128) offered Spring and Fall Semesters.
- Word (CIS 102 & CIS 103) offered Spring and Fall Semesters.
- **PowerPoint** (CIS 113) offered Fall Semester
- Access (CIS 117 & CIS 127) offered Fall Semester.
- **Outlook** Currently, independent study using GMetrix CertPREP.

Note: After passing the exam, students will be provided with a Microsoft digital badge, certificate, and transcript. Word

2021 Microsoft Certification Awards



Type of MOS Certificate

Microsoft Office Certificates



Studies show significant value for certification*

Increased graduation rates

- 97.5% with certification
- 78.4% without certification

Higher GPAs

- 3.12 with certification
- 2.78 without certification

Increased post-secondary enrollment

Improved student confidence

- How is Microsoft Office feeding into the market?
- Do partners feel these are valuable?
- Are these certificates helpful to see on a resume?
- Do they make an impact?
- What else can help students?

CompTIA Certificate

Is there a demand for CompTIA?

Cisco CompTIA A+ Certification

Take CIS 120 IT Essentials (4 units, estimated cost: \$210 in tuition and fees; \$10 in books & supplies).

Cisco Level 1 exam available thru College of Marin.

Completing your CompTIA A+ certification is excellent for helpdesk and higher positions, including entry-level networking career opportunities.



CompTIA A+

A+ is the starting point for a career in IT. The performance-based exams certify foundation skills across a variety of devices and operating systems.



CompTIA Security+

Security+ provides a global benchmark for best practices in IT network and operational security, one of the fastest-growing fields in IT.

CompTIA.



CompTIA Network+

Network+ certifies the essential skills needed to confidently design, configure, manage and troubleshoot any wired and wireless devices.

Online Certificate/Degree Update

What's in the certificate?

21 total credits for a certificate

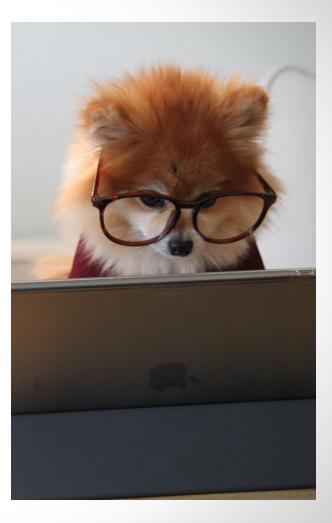
- Beginning MS Word
- Intermediate MS Word
- Intro to CIS
- MS PowerPoint Presentations and Publications
- Into to MS Access Database Design
- Intro to MS Excel
- Intermediate MS Access Database Design
- Intermediate MS Excel Spreadsheet Design
- + 7.5 additional units from a selected list of courses

60 units total with general education courses for a Degree

Why did we move classes to be available online?

> What does this certificate lead to?

When will the online courses offered?





Internships

5 key questions



After 1 year of CIS classes how best can a student be ready for on-the-job training/internship?



What skills will a student need to have at the halfway mark?



Do you have interest in offering an internship?



Do you currently have existing opportunities or the ability for hosting students?



What do we want the student to gain from the internship experience?

Advisory Check-In

Possible New Certificate

Network and System Administrator

This certificate will prepare students to work as an Information Technology professional to manage data centers, database centers and provide support to Microsoft and UNIX networks users.

Total: 14.5 units



Would this certificate benefit students and prepare them for work?

Courses -

- CIS 101 : Introduction to Personal Computers and Operating Systems : 1.5 Units
- CIS 126: Introduction to Windows : 1.5 Units. 1 lecture and 1.5 lab hrs/wk. No prerequisite. Advisory: CIS 101 or 110.
- CIS 155A: Systems and Network Administration : 3 Units.
 2 lecture and 3 lab hrs/wk. 3.0 Units. 2 lecture and 3 lab hrs/wk.
 No prerequisite. Advisory: CIS 275.
- CIS 237: Introduction to SQL Programming 1.5 Units. 1 lecture and 1.5 lab hrs/wk. No prerequisite. Advisory: CIS 137.
- CIS 275: Networking Fundamentals and Practices : 3 Units. 2 lecture and 3 lab hrs/wk. No prerequisite. Advisory: CIS 170 or 110.
 - CIS-XXX: **Unix System Administration** Needs to developed 4 units

Possible New Certificate

Web Software and Information Security Analyst

This certificate will prepare students to work as an Information Security professional to manage and secure private and public cloud-based application systems.

Total: 15.5 units



Would this certificate benefit students and prepare them for work?

Courses -

- CIS 101 : Introduction to Personal Computers and Operating Systems 1.5 Units
- COMP 138- Introduction to Programming- Python Programming 4 Units
- CIS 120: **IT Essentials: PC Hardware and Software** 4.0 Units. 3 lecture and 3 lab hrs/wk. No prerequisite
- CIS 160: Introduction to Information Systems Security 3.0 Units. 2 lecture and 3 lab hrs/wk. No prerequisite. Advisory: CIS 275.
- CIS 215: Visual BASIC Programming 3.5 units

Possible New Degree

Cyber Security Degree



Would this degree benefit students and prepare them for work? Who currently is offering it?

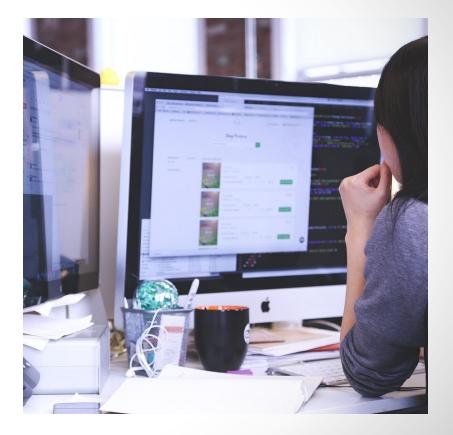
- City College of S.F.
- San Mateo Community College
- How many awards/year?
- approximately 140; less than 200

What's next for the students?

Possible New Software, Applications/Subscriptions

- **1.** Virtual labs to support CompTIA training
- 2. MS Project software for Computerized Project Management
- **3.** TestOut for MS Office application used in computer labs





High School Connection

Building Pathways

High School Offerings

Currently working with local high schools to bridge their classes to College of Marin

San Marin High School:

- CISCO IT Essentials, Networks, Switching and Routing
- about 30 students

Summer Career Academies - Cyber Security Classes (Into and Intermediate)





COLLEGE OF MARIN

Computer Information Systems

CAREERS / ANNUAL AVERAGE INCOME

- Network and Computer Systems Administration \$95,442
- Information Security Analysts \$107,250
- Executive Administration Assistants \$68.315

Database Administrators - \$79,329

Business Operations Specialists - \$63,000

PROGRAM OFFERINGS

- Associate in Science Degree in Computer Information Systems (60.0 Units)
- Certificate of Achievement, Computer Information Systems (13.5 Units)
- Skills Certificate, Microsoft Office (10.5 units)
- Skills Certificate, Microsoft Office Database Specialist (6.0 Units)

FALL CORE CLASSES

CIS103 - Intermediate MS Word (1.5 units, CSU) CIS110 - Intro to Computer Information Systems (3 units, CSU/UC) CIS113 - MS PowerPoint Presentations and Publications (1.5 units, CIS118 - Intro to MS Excel Spreadsheet Design (1.5 units, CSU) CIS 128 - Intermediate MS Excel Spreadsheet Design (1.5 units,

SPRING CORE CLASSES CIS102 - Beginning MS Word (1.5 units, CSU) CIS117 - Intro to MS Access Database Design (1.5 units, CSU)

CIS127 - Intermediate MS Access Database Design (1.5 units, CSU) + additional 7.5 units from a selected list

* Course scheduling is subject to change. Please check with a counselor to determine your educational plan. Classes are located at IVC, KTD and online...

TO GET STARTED

CSU)

CSU)

Course Scheduling www1.marin.edu/schedule

Enrollment Services, Financial Aid and Registration es.marin.edu

High School student programs and enrollment information www1.marin.edu/high-school-programs

PROGRAM CONTACT

Manny Kang MaKang@marin.edu (415) 457-8811 x8200 PROGRAM ONLINE academics.marin.edu/program/mach

COUNSELING (415) 485-9432 ss.marin.edu/counseling

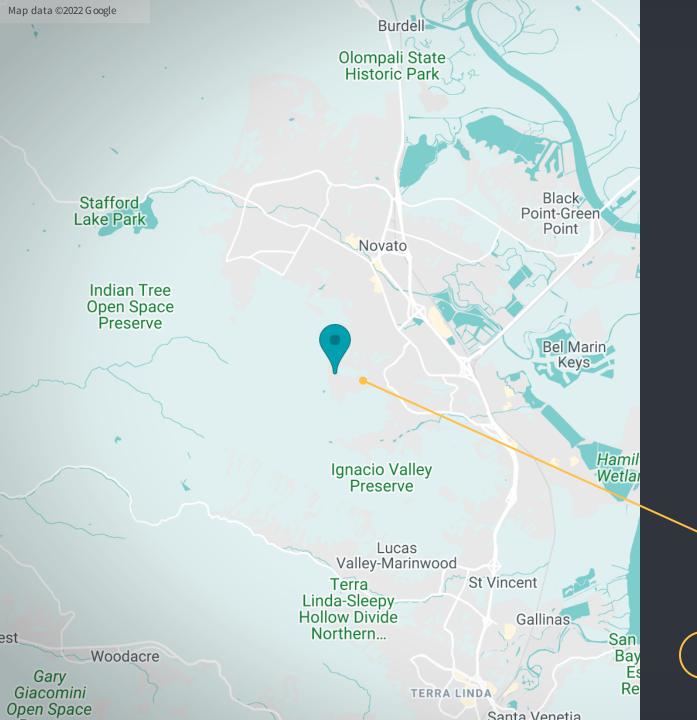
New Pathway **Sheets**

1 page

- Careers
- Offerings
- Core Classes
- Resources to get started
- Contact info
- Program landing page

Summary/Wrap-up Thoughts? Questions? NEXT STEPS





Thank You!

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