



Marin County Office of Education College and Career Readiness

Thursday, December 1, 2022



*College of Marin
Career Technical Education Committee Meeting*



MCOE - College and Career Readiness (CCR)

- School to Career Partnership (STC)
- Regional Occupational Program (ROP)
- Career Technical Education (CTE) Pathways
- Countywide CTE Grants

What is a high school CTE pathway?

- A sequence of 2+ years of CTE courses that follow the [CTE Model Curriculum Standards](#)
- Partnerships with industry to advise curriculum and provide opportunities for career exploration, work-based learning, skills certificates, etc.
- Opportunities for early college credit and alignment with a postsecondary pathway

California's Career Technical Education:

Preparing Students for the 21st Century and Beyond

"We seek the day when every enterprise in California—public and private—has access to a pool of talent that both attracts the world's leading businesses and hastens the development and success of new ones, creating opportunities for all."

INDUSTRY SECTORS



**INDUSTRY
SECTORS**

The infographic features a central teal oval labeled 'INDUSTRY SECTORS'. Lines radiate from this central hub to several surrounding colored ovals, each representing a different industry sector. The sectors shown include: 1. An orange oval at the top with a list of services: 'Structural Repair and Refinishing' and 'Systems Diagnostics, Service, and Repair'. 2. A pink oval at the top right with a 'CHILD' icon (represented by blocks) and the title 'Education, Child Development, and Family Services', followed by a list: 'Child Development', 'Consumer Services', 'Education', and 'Family and Human Services'. 3. A purple oval at the bottom right with a film reel icon and the title 'Arts, Media, and Entertainment', followed by a list: 'Design, Visual, and Media Arts', 'Performing Arts', 'Production and Managerial Arts', and 'Game Design and'. 4. A dark teal oval at the bottom left with a gear icon and the title 'Manufacturing and Product Development', followed by the start of a list: 'Graphic Production'. The background is a light green gradient.

- Structural Repair and Refinishing
- Systems Diagnostics, Service, and Repair



Education, Child Development, and Family Services

- Child Development
- Consumer Services
- Education
- Family and Human Services



Arts, Media, and Entertainment

- Design, Visual, and Media Arts
- Performing Arts
- Production and Managerial Arts
- Game Design and



Manufacturing and Product Development

- Graphic Production

Why CTE Pathways?

- **25%** of the Class of 2021 (651 students) did not enroll in college in fall 2021.
- **42%** of the Class of 2015 did not complete college within six years of graduating high school.

Source: [Marin Promise Partnership via National Clearing House data](#)



Why CTE Pathways?

- Systemic inequities and achievement gaps
- Impacts from segregation in Marin:
 - vast gaps in life span
 - income
 - educational attainment

Sources: [*The Brookings Institute*](#); [*Othering and Belonging Institute*](#)



According to the U.S. Department of Education Career Technical Education Data Story in 2019, high school students who were CTE pathway completers:

Graduated from high school at higher rates than their non-CTE peers

Enrolled in postsecondary education within eight years of their expected high school graduation at slightly higher rates than non-CTE students

Had **higher median annual earnings** eight years after graduation than non-CTE students

Were employed full-time at higher rates eight years after their expected high school graduation compared to non-CTE students

CTE in Marin High Schools:

- Agriculture and Natural Resources
- Arts, Media, and Entertainment
- Building and Construction Trades
- Business and Finance
- Education, Child Development, and Family Services
- Engineering and Architecture
- Health Science and Medical Technology
- Hospitality, Tourism, and Recreation
- Information and Communications Technology
- Manufacturing and Product Design
- Marketing, Sales, and Services
- Public Services
- Transportation

Alignment with CCCCCO CE Sectors

- Advanced Manufacturing
- Advanced Transportation & Logistics
- Agriculture, Water & Environmental Technologies
- Business & Entrepreneurship
- Energy, Construction & Utilities
- Education & Human Development
- Health
- Information & Communication Technologies (ICT) / Digital Media

What is a high school CTE pathway?

Novato Unified School District
Novato High School

Video Game Design Pathway

CTE Industry Sector: Arts, Media, and Entertainment
CTE Pathway: Game Design and Integration



Pathway Sequence of Courses

Introduction

Concentrator

Capstone

Pathway
Courses

Video Game
Design 1

Video Game
Design 2

Video Game
Design 3

What is a high school CTE pathway?

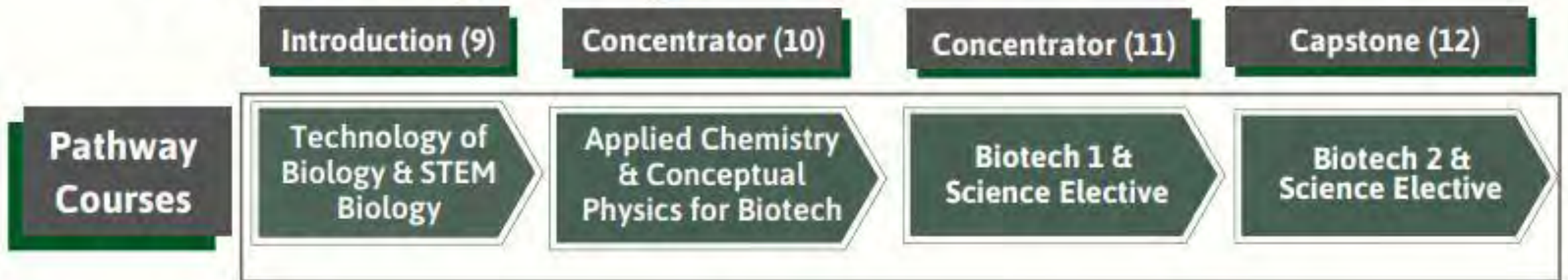
Novato Unified School District
San Marin High School

Biotechnology Pathway

CTE Industry Sector: Health Science and Medical Technology
CTE Pathway: Biotechnology



Pathway Sequence of Courses





MARIN COUNTY
OFFICE OF EDUCATION

COLLEGE OF
MARIN

K-14 Alignment: Partnerships with the College of Marin

-
- Summer Career Academies
 - Articulation Agreements
 - CTE Pathway Alignments & Post-Secondary Transitions

Summer Career Academies



220

units of college credit

170

enrollments

9

academies

7

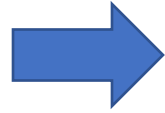
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Industry Sectors Represented

- Arts, Media, and Entertainment
- Business and Finance
- Building and Construction
- Education, Child Development, and Family Services
- Engineering and Architecture
- Health Science and Medical Technology
- Information Technologies
- Public Services

Articulation by Exam Agreements

Industry Sectors
Agriculture and Natural Resources
Health Science and Medical Technology
Transportation



High School Articulated Courses with COM	College Units	Students
Automotive Technologies: Tamalpais HS	6.0	68
Automotive Technologies: Terra Linda HS	6.0	67
ROP Medical Assisting	7.0	27
Total	19	162

High School Articulated Courses with other Community Colleges	College Units	Institution	
Biotechnology: San Marin HS	4.0	Solano Community College	72
Sustainable Agriculture: Redwood HS	4.0	Santa Rosa Junior College	88
Total	8		160

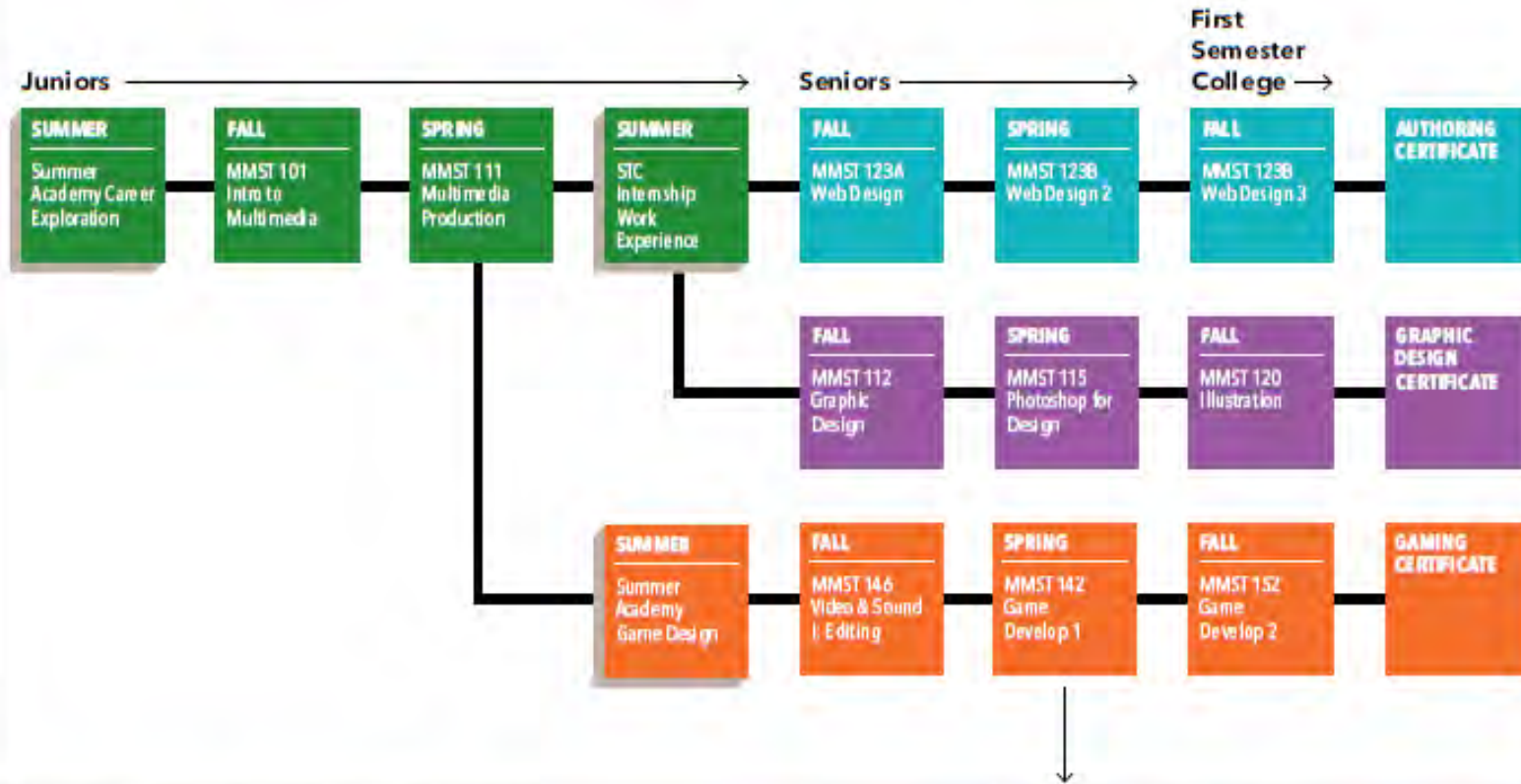


Alignments and Post-secondary Transitions

Game Design

High School-to-College Career Pathway Map

academics.marin.edu/program/mmst



To get first-hand knowledge of careers, join the Bright Futures Speaker Series at marinschools.org/Page/8304.



Earn College Units
If you've come this far, you have earned 15 units toward a 24.5 to 27.5-unit Multimedia Studies certificate!

Collaboration with MCOE and K-12 partners helped create the new College of Marin Pathways Book

Helps inform K-12 Career Technical Education marketing flyers to increase pathway alignments

Tangible resource for high school students, counselors, staff, parents, and the community

CTE Grants (since January 2019)

**K-12 Strong Workforce
Program (K12 SWP)**

\$4,124,354

**Career Technical Education
Incentive Grant (CTEIG)**

\$1,656,659

\$5,781,013

Round 5 Applications

\$2,049,312

A person wearing a white hard hat and a dark hoodie is using a circular saw to cut a piece of wood on a wooden table. Another person in a grey hoodie is standing next to them, watching the process. The scene is outdoors, with a chain-link fence and some construction materials in the background.

MARIN CTE CENTER

PURPOSE

Expand pathways to high-demand, livable-wage careers while increasing rates of high school graduation and postsecondary completion.

CTE CENTER

Terra Linda HS: A **central location** for CTE courses that are open to high school students from across Marin.

Construction of an **outdoor classroom** and reorganization of existing CTE classroom space.

Courses offered in **early afternoons, evenings, and weekends.**

College credit, industry certifications, and work-based learning embedded into each course.



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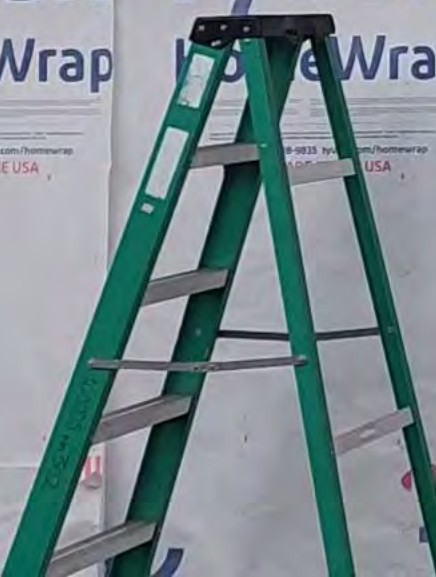
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PROPOSED
CTE CENTER
TRADES COURSES



**Intro to Building and Construction
Careers**



Construction Technology



Electrical



Plumbing



Welding



HVAC

HIGH DEMAND, LIVABLE WAGE

	Annual	2020-2025	Median Hourly Earnings
Carpenters	719	3,594	\$ 32.13
Electricians	373	1,866	\$ 34.09
Plumbers	175	875	\$ 32.39

Data sources:

* Emsi Burning Glass. (2021). Hourly earnings and projected demand by occupation [Data files]. Emsi Burning Glass at economicmodeling.com.

* Insight Center. (2021). Family Needs Calculator [Data files]. Available at <https://insightccd.org/family-needs-calculator/>.

HIGH DEMAND, LIVABLE WAGE

	Annual	2020-2025	Median Hourly Earnings
Construction Laborers	757	3,784	\$ 22.55

Data sources:

* Emsi Burning Glass. (2021). Hourly earnings and projected demand by occupation [Data files]. Emsi Burning Glass at economicmodeling.com.

* Insight Center. (2021). Family Needs Calculator [Data files]. Available at <https://insightccd.org/family-needs-calculator/>.

CTE CENTER



**AUTOMOTIVE
TECHNOLOGY**



MEDICAL ASSISTING



EDUCATION

	2022-23	2023-24	2024-25	2025-26
Existing classes	<i>Auto Tech 1/2</i>	<i>Auto Tech 1/2</i>	<i>Auto Tech 1/2</i>	<i>Auto Tech 1/2</i>
	<i>Auto Tech 1/2</i>	<i>Auto Tech 1/2</i>	<i>Auto Tech 1/2</i>	<i>Auto Tech 1/2</i>
	<i>Medical Assisting</i>	<i>Medical Assisting</i>	<i>Medical Assisting</i>	<i>Medical Assisting</i>
	<i>CAPP 1</i>	<i>CAPP 1</i>	<i>CAPP 1</i>	<i>CAPP 1</i>
	<i>CAPP 2</i>	<i>CAPP 2</i>	<i>CAPP 2</i>	<i>CAPP 2</i>
New classes	Intro to Building and Construction Trades (spring)	Intro to Building and Construction Trades (spring)	Intro to Building and Construction Trades (spring)	Intro to Building and Construction Trades (spring)
	Intro to Building and Construction Trades (spring)	Intro to Building and Construction Trades (spring)	Intro to Building and Construction Trades (spring)	Intro to Building and Construction Trades (spring)
	Auto Tech 1/2	Auto Tech 1/2	Auto Tech 1/2	Auto Tech 1/2
	Education Careers 1	Education Careers 1	Auto Tech 3	Auto Tech 3
		Education Careers 2	Education Careers 1	Education Careers 1
		Construction 1	Education Careers 2	Education Careers 2
		Electrical 1	Construction 1	Construction 1
			Construction 2	Construction 2
			Electrical 1	Electrical 1
			Electrical 2	Electrical 2
				Plumbing 1
				Welding 1



Raised to Date

Koret Foundation Capital Grant	\$600,000
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Private Donations & Other Grants	\$450,000
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Total	\$1,050,000
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MCOE Direct Support	\$500,000
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NEXT STEPS

CAPITAL PROJECT

**Architectural
plans are under
development**

**Plans to go out to
bid in December
for summer 2023
construction**

NEXT STEPS



Hire staff



Develop
curriculum



Recruit students



Continue to raise
funds

THE OPPORTUNITY

- K-14 pathway alignment
- Early college credit in CTE programs
- Marketing of COM programs for CTE students
- Greater collaboration between K12 and COM CTE programs – staff and students



THANK YOU!

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