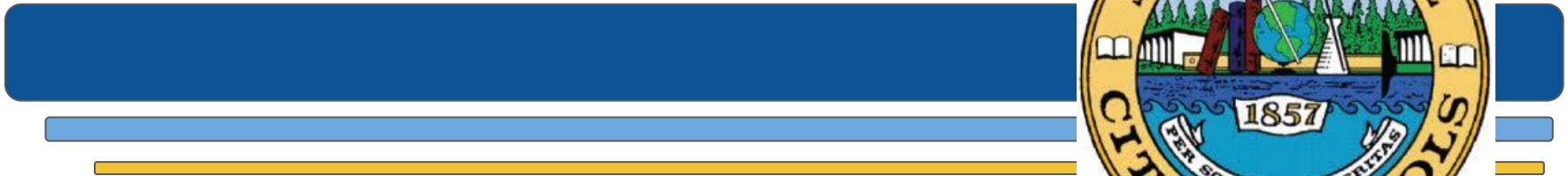


Santa Cruz City Schools CTE District Advisory Committee



7 November 2022

Meeting Objectives:

By the end of the meeting all participants will....

- Have an understanding of our updated local labor market data and determine if any additional data is needed
- Evaluate the 21-22 CTE advisory board recommendations and determine if any additions and/or revisions need to be made to these to be sent to the SCCS Board in December.

Kudos to...



- ★ Welding Program & Laurie Hildebrand won \$1,000 from Harbor Freight Tools
- ★ Marco & Soquel Digital Media Arts Update

Announcements...

- ★ **Trades Day**: Nov. 16, 2022- Construction Industry Education Foundation, Your Future is Our Business, Santa Cruz City Schools
- ★ **Career Readiness Competition**: Students earn \$200 scholarships, 1 student from each participating CTE class, in partnership with Your Future is Our Business

Our Norms

We **acknowledge** one another as **equals**.

We stay **curious** about each other.

We recognize that **we need each other's help** to become better listeners.

We **slow down** so we have time to think and reflect.

We remember that conversation is a natural way **humans think together**.

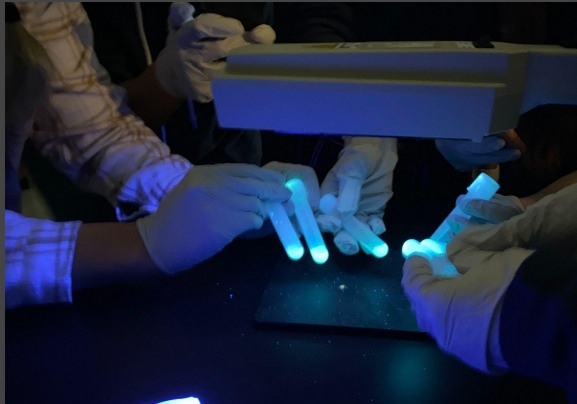
We expect it to be **messy** at times.

We acknowledge our impact on others & **take responsibility**.



Industry Highlight (standing agenda item)

Biotechnology



- 1 of 2 different Health Science & Medical Technology Pathways offered in SCCS
- 22-23 Dual Enrollment Biotech 2 Cabrillo course added at Soquel High to create a full Biotech Pathway!

Pathway and Curriculum

- **Biotechnology I**
 - This course is articulated with Cabrillo College's Bio 41T
 - Multiple sections taught at Soquel High School
- **Biotechnology II**
 - This course is a Dual Enrollment Cabrillo course (Bio42T) taught at the Soquel High campus
 - enables students to continue their pathway with college credits, while attending high school.
 - completion of this course leads to a certificate in Biotechnology with the addition of a microscopy lab.



Our CTE Biotechnology course and Cabrillo's course both have adopted the same curriculum. Curriculum includes a textbook, a laboratory experiments lab manual, a teacher's manual and workbook.

Bell to Bell Engagement for ALL students

Scaffolded, hands on, modern based, goal oriented collaborative instruction



Field Trips

STEM Cell Institute - Baskin School of Engineering - BioMed
Devices Conference - Stanford Bioinformatics YFIOB Luncheon -
Genentech / Thermo Fisher Scientific, TECH Museum

Exposure is key, let them see it,
experience it, so they can imagine
themselves doing it.



CTE cross Industry/career Standards

1. Apply appropriate technical skill and academic knowledge
2. Communicate clearly, effectively and and with reason
3. Develop and educational and career plan aligned with personal goals
4. Apply technology and enhance productivity
5. Utilize critical thinking to make sense of problems and persevere in solving them
6. Practice personal health and understand financial literacy
7. Act as a responsible citizen in the workplace and community
8. Model integrity, ethical leadership and effective management
9. Work productively in teams while integrating cultural and global competence
10. Demonstrate creativity and innovation
11. Employ valid and reliable research strategies
12. Understand the environmental, social, and economic impacts of decisions

Role of the CTE Advisory Committee

It is the function of this committee to:

1. **Advise** on the types of **CTE programs** offered to SCCS students (e.g., CTE pathways, courses, work based learning experiences, etc.) **aligned** with **regional workforce data**.
2. **Evaluate** the **effectiveness** of the SCCS CTE program. This committee will develop **guidelines** and **use data** to determine **effectiveness and impact** of SCCS CTE programs.
3. **Study** and **make recommendations** to help solve CTE related problems presented to the district/program by the school board on which further information is needed.

CTE Advisory Work at a Glance

20-21 Year 1:

studied district CTE programs & regional labor market data

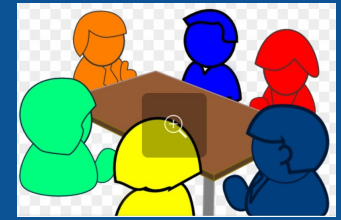
21-22 Year 2:

evaluate district CTE programs & **made recommendations** to the Board

22-23 Year 3:

monitor recommendations in relation to labor market data, student interest, \$, etc. (see rubric) & **evaluate** if any changes need to be made to these recommendations

Local/Regional Labor Market Update



Santa Cruz County State of the Workforce Report for 2022

- Review Executive Summary Report pages 2-4, Key Findings

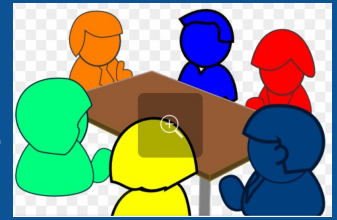
Bay Region LMI News and Updates, October 2022

- Top in Demand Middle Level Jobs, pages 5-7: Medical, Computer Science, Education
- Correlation to SCCS CTE Recommendations
- Modifications to the recommendations

Fastest Growing Careers in California

- Correlation to SCCS CTE Recommendations
- Modifications to the recommendations

Labor Market Advisory Discussion Notes



- Saw a large number of people leaving the area and # of jobs went down, yet the unemployment rate stayed the same
- Tier 3 jobs → lower skilled jobs are moving up in “tiers” as they advance in tech→ there are fewer tier 3 jobs, is this because jobs that used to be considered tier 3 are now moving into Tier 2 as tech demands increase
- Medical field is still the highest demand
- Hard to keep people in the medical field bc the pay and quality of life if you stay here are not what the quality of life could be in “cheaper areas”
- Many of these jobs are becoming more and more specialized →e.g., rare to be general mechanic, but now you specialize in make and models of cars→ what does this do to job mobility? Not as easy to move from place to place because of the specialization needed
- Recommendation is to help community to know different career fields & educate students → this is what our district CTE programs
- Some health care skills are unable to be taught in K-12.

CTE Advisory Recommendations from Dec 2021

- Increase Computer Science offerings
- Increase Medical Pathways
- Consider offering an Education pathway
- Add a CTE Wheel that gives kids a sample of many CTE areas

*Enhance the construction pathway by including HVAC & electrical construction into the existing courses

Increase Computer Science Offerings

What's been done so far...

- IT Essentials Pathway @ Soquel & SCHS
- 24 Soquel, 5 SCHS of students in IT Essential Pathway
- CS courses at Harbor & SCHS (math classes, not CTE)
 - 31 Intro Comp Sci @ SCHS & 31 AP Comp Sci @ SCHS
 - 31 Intro Comp Sci @ Harbor

To come...

- Cabrillo Dual Enrollment courses in 23-24
 - CIS-81: Computer Network Fundamentals - One Semester
 - CIS-75: Fundamentals of Computer Security - One Semester
 - Internship Program - One Semester

Increase Medical Pathways

What's been done so far...

- Added Biotech 2 Dual Enrollment Cabrillo course this school year @ Soquel. This completes our Biotech Pathway.
- Already have 1 section of sports med @ Soquel
- Already have 2 sections of Medical Technology & 2 sections of Health Careers @ Harbor

To come...

- Looking into Behavioral Health pathway @ SCHS → already have potential teachers on staff (School Psychologists) → 1 section would be implemented in 23-24
- Grow Biotech at Soquel.

Consider offering an Education pathway

What's been done so far...

- Met with Cabrillo Dual Enrollment Coordinator & Cabrillo has an Education program that joins the CSUMB Education pathway
- Moving forward with implementing a 2 course Dual Enrollment Education pathway @ SCHS (1 ECE class 1st sem & 1 Ed class 2nd sem)
- Student recruitment to Education Pathway in 22-23 has begun w/ the SCHS Elective Fair on November 3rd

To come...

- If we can get at least 15 students to commit to pathway then move forward with finding teachers → desire to have onstaff teachers if possible

Add a CTE Wheel that gives kids a sample of many CTE areas

What's been done so far...

- Summer school elective wheel that included CTE courses for both middle & high school students (Sustainable Ag & Woodworking)

To come...

- Planning on implementing a middle school CTE elective wheel at both middle schools in 22-23 w/ CTEIG funds (California CTE Incentive Grant)
- Also, looking into the possibility of another CTE middle school planning grant that would support these efforts



CAREER TECHNICAL EDUCATION

CTE offerings at Santa Cruz City Schools

1 | Santa Cruz High

- Automotive Technology
- Bicycle Technology
- Mill Cabinetry
- Digital Media Arts
- Video Production
- Dance Choreography
- Computer Science~

2 | Harbor High

- Health Careers*
- Medical Technology*
- Bicycle Technology
- Mill Cabinetry
- Graphic Design
- IB Film
- Photography
- Computer Science~

3 | Soquel High

- Sustainable Agriculture^
- Biotechnology
- Construction Tech*
- Mill Cabinetry
- Welding*
- Digital Media Arts
- Floral Design
- Sports Medicine*

COE CLASS OFFERINGS

- Fire Technology (SCHS)
- Culinary Arts (Mission Hill MS)
- Baking and Pastry (Cabrillo)
- IT Essentials (SHS, SCHS)

* Magnet Classes with asterisk welcome 11th and 12th graders from other campuses.
Students must provide their own transportation.

~Computer Science is currently offered as part of the core curriculum.

^ Sustainable Agriculture also offered at Costanoa High School.

Comparing Updated Local/Regional Labor Market Data to 2021 CTE Advisory Recommendations

In your table group discuss the following question & take notes:

Do we need to add to or modify the 21-22 CTE Advisory recommendations based on updates to local labor market info &/or district CTE data?

Be ready to share your notes from your discussion with a new group!

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Meeting Wrap Up & Next Meetings

- **Last Meeting:** Monday, February 6th, 2023