

SOMERVILLE HIGH SCHOOL
CENTER FOR CAREER AND TECHNICAL EDUCATION

January 8, 2024



WHAT IS CTE

- CTE stands for Career Technical Education
- In the state of Massachusetts, most CTE programs are considered Chapter 74 Programing
- Chapter 74 Programs have strict guidelines and oversight from DESE
- The 17- 6 day rotation exploratory program is approved by DESE and will run until the end of May



CHAPTER 74 PROGRAMS

Currently we have 14 Chapter 74 programs

* Advanced Manufacturing * Architectural Design (Drafting) * Automotive Technology

* Carpentry * Cosmetology * Culinary Arts * Dental Assisting * Early Education

* Electrical * Graphic Communications * Health Careers * Plumbing * Metal Fabrication

* Heating Ventilation Air Conditioning & Refrigeration (Approved this year)

All students have the opportunity to earn industry recognized credentials in these programs



CENTER FOR CAREER TECHNICAL EDUCATION ENROLLMENT

- **Total Enrollment for 2021/2022 school year- 634**
 - Including 251 Exploratory students (9th grade)
- **Total Enrollment for 2022/2023 School Year- 687**
 - Including 259 Exploratory students (9th grade)
- **Total Enrollment for 2023/2024 School Year- 798**
 - Including 296 Exploratory students (9th grade)

*Includes Full Circle Students / Oct 1 reports



INCREASING ACCESS TO CTE

School Year 2022-23

- Changed the CTE schedule from 5 different schedules to 1 uniform schedule to increase opportunities for academic class scheduling (Increased access to special education and MLE students to meet state required classes)
- Added a 4th block to the senior year to meet the 900 hour requirements

School Year 2023-24

- Possible waiver for English Learners or Former English Learners up to 5 credits that can be applied to courses not required by state or federal regulations
- Hired a multilingual paraprofessional to support the increased enrollment of MLE students
- Added 2 new rotations in exploratory- Career Exploration and College and Career
- Opened enrollment to Full Circle students



INCREASING ACCESS TO CTE

School Year 2024-25

- Change in Requirement for grade 11 and 12 CTE programs and PE/Health

Wellness Program - Embedded Health/PE rotation junior & senior year of CTE in lieu of a PE/Health class

- Change in Requirement for Health Careers 3 and Dental Assistant 3

Human Physiology- Embedded into Health Careers and Dental Assisting- Increase opportunities for students to take additional classes (AP, World Language, Electives, etc)



INCREASING ACCESS TO CTE

School Year 2024-25

- Change in Requirement for Architectural Design / Pre-Engineering 3 and Advanced Manufacturing 3

Steam Design & Engineering 1 and 2 - Embedded into Drafting & Advanced Manufacturing fulfilling 5 of the 15 science credits



PROGRAM LAYOUT IMPROVEMENTS

- Created 31 booths for students to work on individual projects
- Creates a real world residential application with construction framing
- Upper portion of the booths have plywood for different applications for senior group
- The booths open up the line of sight for staff to see the students throughout the shop
- Layout allows for more storage for supplies/materials



PROGRAM LAYOUT IMPROVEMENTS

- Program was set up with 24 small cubicles/desks that was industry standard
- Reorganized equipment and built benches to mimic a HVAC-R / sheet metal shop
- Purchased additional equipment and freshmen tooling to accommodate 20 students in the exploratory program



Skills USA

- Last year was the first year we had 100% participation in Skills USA
- 75 Students competed at the District Level
- 12 Students went onto the State Competition (4 gold, 4 silver, 4 bronze)



COMMUNITY PARTNERSHIPS

- **Affiliations with 3 CTE Areas**

- Health (Long Term Care & Assisted Living Facilities)
- Dental (Area Dental Offices)
- Early Education (City Classrooms)

- **Habitat for Humanity (House Building Program)**

- Working with Habitat and the Mayor's office to bring a Habitat project to Somerville
- Possible shed building program with Habitat ReStore

- **Department of Public Works**

- Toured Jill Lathan and Ben Waldrip through CTE to try to get the pipeline going from CTE to DPW

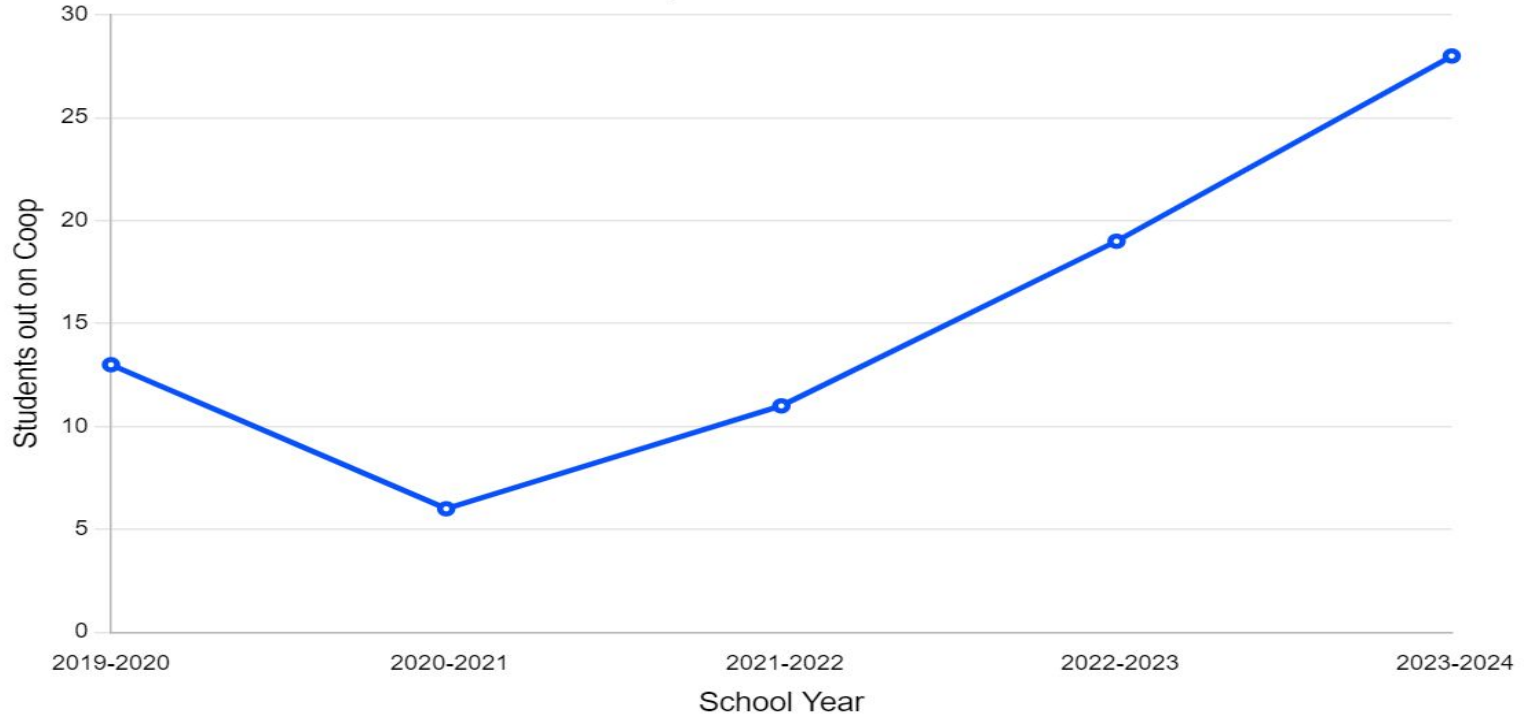


COOPERATIVE EDUCATION

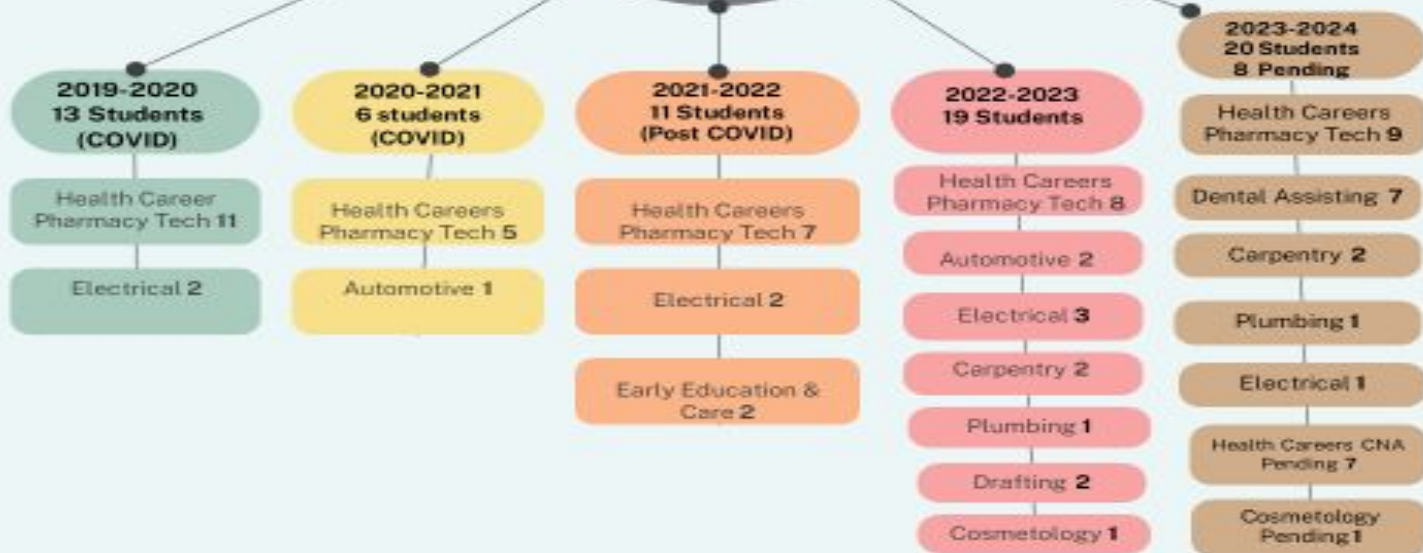
- The Cooperative Education Program is a continuation of the CTE program that provides qualified juniors/ seniors with an employment opportunity in an industry setting
- DESE has strict guidelines for Chapter 74 Cooperative Education Programs
- At minimum quarterly site visits are complete by Cooperative Education Licensed person (Meg McDevitt)



CTE Cooperative Education



CTE Cooperative Education



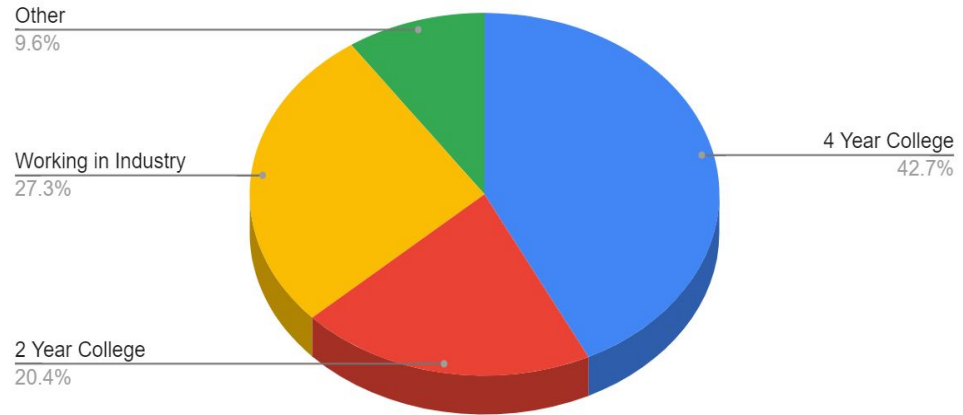
POST GRADUATE PLANS

Class of 2022

42.7% 4 year college
20.4% 2 year college
27.3% working in industry
9.6% other

37% of college students plans/majors
are related to CTE program

Class of 2022



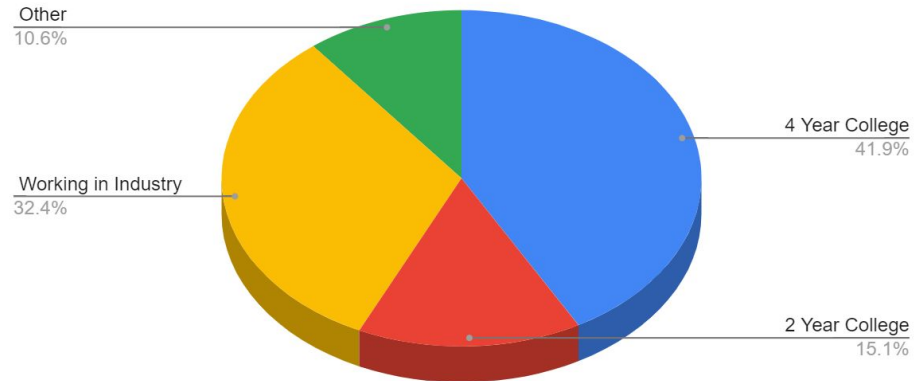
POST GRADUATE PLANS

Class of 2023

41.9% 4 Year College
15.1% 2 Year College
32.4% Working in Industry
10.6% Other

43% of college students plans/majors
are related to CTE program

Class of 2023



CTE CHALLENGES

- Enough equipment/space for future student enrollment
- Funding for enrolled students (Enrollment has increased by 26% past 2 years / zero increase in budget) \$125,000
- Perkins Grant (25% is the new Multilingual Para position)
- Funding for equipments maintenance/repairs (Currently coming out of the \$125,000)
- Staffing as enrollment grows / vacancies



STAFF VACANCIES

We have the following staff vacancies for CTE:

Electrical Instructor-

Qualifications: You will need 5 years experience in the Electrical field and a Massachusetts Masters Electrical license

Automotive Instructors (1)-

Qualifications: You will need 5 years experience in the Automotive field and 3 ASE Certifications

