

EAST HARTFORD PUBLIC SCHOOLS
Career and Technical Education Program, K-12



Academic Guide for Families
2023-2024

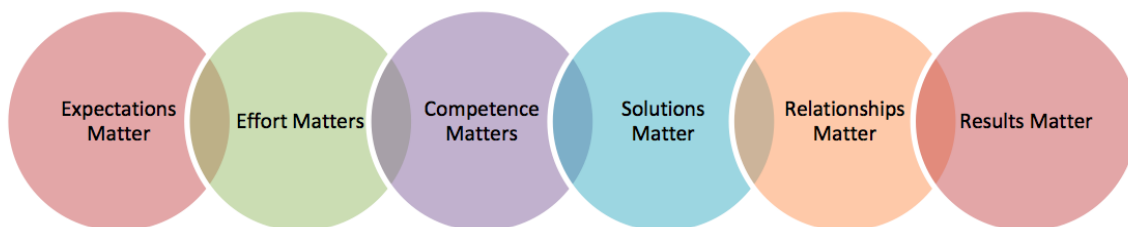
Table of Contents

Preface & Overview	3
Middle School Program Scope of Services	5
High School Program Scope of Services	6
College Career Pathways Program	8
Resources for Parents & Students	9



East Hartford Public Schools

Schools that are the Pride of our Community



PREFACE

Career and Technical Education (CTE) prepares secondary students for a wide range of careers and further educational opportunities. These careers may require varying levels of education—including industry-recognized credentials, postsecondary certificates, and two- and four-year degrees. CTE is at the forefront of preparing students to be “college- and career-ready.” CTE equips students with:

- Core academic skills and the ability to apply those skills to concrete situations in order to function in the workplace and in routine daily activities; and
- Employability skills (such as critical thinking and responsibility) that are essential in any career area job-specific, technical skills related to a specific career pathway.

OVERVIEW

The National Career Clusters® Framework serves as an organizing tool for Career Technical Education (CTE) programs, curriculum design and instruction. There are 16 Career Clusters in the National Career Clusters Framework, representing 79 Career Pathways to help learners navigate their way to greater success in college and career. The framework also functions as a useful guide in developing programs of study bridging secondary and postsecondary systems and for creating individual student plans of study for a complete range of career options. As such, it helps learners discover their interests and their passions, and empowers them to choose the educational pathway that can lead to success in high school, college and career.

Secondary institutions in Connecticut may offer courses and programs in any of the 16 clusters. However, Perkins V funds must be utilized on programs aligned with priorities in Connecticut that are informed by labor market data and projections. Each of the clusters has merit, yet when placed against the workforce data including Connecticut’s long-term industry and occupational projections for 2016 – 2026, the following 12 Connecticut Perkins V Career Clusters best fit the workforce needs of Connecticut:

- Agriculture, Food, and Natural Resources;
- Architecture and Construction;
- Business Management and Administration;
- Education and Training;
- Finance;
- Health Science;
- Hospitality and Tourism;
- Information Technology;
- Manufacturing;
- Marketing;
- Science, Technology, Engineering, and Mathematics; and
- Transportation, Distribution and Logistics.

East Hartford Public Schools is committed to building resources and sharing knowledge to offer all students access to rigorous pathways and programs of study that result in students being college and career ready upon graduation. Our process for selecting 9 out of 12 (i.e., Architecture and Construction; Business Management and Administration; Education and Training; Finance; Health Science; Hospitality and Tourism; Information Technology; Science, Technology, Engineering and Mathematics; and

Transportation, Distribution and Logistics) Connecticut Perkins V Career Clusters was based on Capital Workforce Partners data and courses listed in East Hartford High School's program of studies.

According to [Data, USA](#), the economy of East Hartford, CT employs over 26, 000 people. East Hartford's largest industries are Health Care & Social Assistance (4,743 people), Retail Trade (3,443 people), and Manufacturing (2,357 people). Whereas the highest paying industries are Public Administration (\$65,521), Finance & Insurance (\$65,153), and Wholesale Trade (\$61,991). However, the highest paid jobs held by East Hartford residents by median earnings, are Computer & Mathematical Occupations (\$77,031), Architecture & Engineering Occupations (\$69,545), and Computer, Engineering & Science Occupations (\$69,222).

Capital Workforce Partners provides Labor Market Information for key occupations within Hartford County. The links are listed below.

Healthcare Occupations

<https://capitalworkforce.org/wp-content/uploads/2022/11/Healthcare-Sector-Report-2022.pdf>

Manufacturing/Production Occupations

<https://capitalworkforce.org/wp-content/uploads/2022/11/Manufacturing-Sector-Report-2022.pdf>

Construction Occupations

<https://capitalworkforce.org/wp-content/uploads/2021/04/Construction-Overview-in-Hartford-County-March-2021.pdf>

Information Technology

<https://capitalworkforce.org/wp-content/uploads/2022/11/IT-Tech-Sector-Report-2022.pdf>

Transportation, Distribution, and Logistics

<https://capitalworkforce.org/wp-content/uploads/2022/11/TDL-Sector-Report-2022.pdf>



East Hartford Middle School

SCOPE OF SERVICES

The Technology Education Program at the middle school is an exploratory program that provides awareness and foundational skills for future career pathway opportunities. Students are introduced to computer literacy, computer graphics, coding and manufacturing in preparation for focused high school academic planning that leads to college and career readiness. The terms listed below are essential principles that guide us to promote career awareness and exploration to all students.

- **Integrated Learning** - Technology Education supports many subject areas including science, mathematics, English language arts, and social studies. It introduces an alternative form of self-expression that challenges each individual to create and produce interdisciplinary projects.
- **Hands-on Participation** - Technology education promotes enthusiasm for further exploration through active participation on computers and use of industry-related tools. This approach encourages better retention and understanding of technological applications.
- **Basic Skills** - Technology Education provides for the development and application of three basic skills: creativity, problem solving, and critical thinking. Appropriate activities help students build these life-long skills. Students are encouraged to explore and create at their own pace, to work together in a cooperative environment, and to assess their work in a comfortable atmosphere.

East Hartford Public Schools is committed to supporting career exploration in the middle grades. Thus, we have aligned grade level Career Exploration Courses with CTE Courses and Career Clusters offered at East Hartford High School. The table below lists the alignment between EHMS and EHHS:

EHMS Grade	EHMS Career Exploration Course	EHHS Career Courses	CTE Career Cluster
6	Computer Design	Information Technology STEM	Computer Program/Software Development Technology Education Engineering and Technology Technology Education
7	Computer Applications	Business Management and Administration Information Technology	Business Management Technology Education Computer Program/Software Development Technology Education
8	Engineering Design	STEM Architecture and Construction	Engineering and Technology Technology Education Design/Pre-construction



East Hartford High School

SCOPE OF SERVICES THE BUSINESS EDUCATION PROGRAM



Business Education is an interdisciplinary STEM area that provides students with multifaceted opportunities to become college and career ready. Student experiences in Business Education support concepts that have a real-world focus with a global awareness of current trends and issues. The curriculum and equipment are continuously updated to ensure that students are learning the most current practices and using the most up-to-date technology. The Career Clusters for Business Education are Business Management and Administration and Finance. Courses within these clusters are delivered as coherent sequences within pathways.

The Accounting, Advanced Personal Finance and Computer Applications concurrent enrollment courses give students opportunities to earn up to nine college credits through the College Career Pathways (CCP) program at Manchester Community College. The Academy of Finance (AOF) at the high school is a part of the National Academy Foundation's (NAF) movement to prepare students for college and career success. AOF provides students with a variety of work-based learning experiences from job shadowing opportunities to paid internships. These real-world experiences strengthen confidence of students in themselves and their work, and create more interest in and understanding of business enterprise. Additional information about NAF can be located at (www.naf.org).

Business Classes:

- Academy of Finance 1
- Academy of Finance 2
- Accounting 1
- Accounting 2 (CCP)
- Personal Finance 1
- Personal Finance 2 (CCP)
- Computer Applications 1
- Computer Applications 2 (CCP)
- Excel
- Entrepreneurship
- Sports and Entertainment Marketing

THE TECHNOLOGY EDUCATION PROGRAM

The Technology Education program provides students with academic, technical, and employability knowledge and skills that are critical for college and career readiness. Architecture and Construction, Information Technology, Science, Technology, Engineering, and Math (STEM), and Transportation, Distribution, and Logistics are the Career Clusters that are linked to Technology Education courses. Courses within these Career Clusters are delivered as coherent sequences within pathways.

Students enrolled in AP Computer Science Principles and/or AP Computer Science A may be awarded college credit or accepted from a comparable course based on their AP Score.

Technology Education courses include differentiated instruction to meet the needs of all students. Courses such as Automotive Maintenance, Computer Aided Drawing (CAD), and Photography provide students with knowledge and skills that are transferable to other high school courses and postsecondary planning.

Technology Education Classes:

- AP Computer Science
- Automotive Maintenance and Systems: Engines (CCP)
- Automotive Maintenance and Systems: Steering and Suspension
- Automotive Maintenance and Systems: Brakes
- Computer Graphics 1
- Computer Graphics 2
- Intro to Computer Science
- Engineering Design 1
- Engineering Design 2
- Aerospace Engineering
- Photography 1
- Photography 2
- Robotics 1
- Robotics 2
- Woodworking 1
- Woodworking 2

THE FAMILY & CONSUMER SCIENCE PROGRAM

The Family and Consumer Science program provides students with the opportunity to explore and prepare for careers in culinary, nutrition, dietetics, tourism and hospitality, and food science. The Advanced Baking and Advanced Food Preparation concurrent enrollment courses give students opportunities to earn up to six college credits through the College Career Pathways program at Manchester Community College.

Family and Consumer Science courses offer students real world applications through hands-on educational and laboratory-based experiences. These experiences allow students to explore career and make informed career choices while completing high school.

Family and Consumer Science Classes:

- Intro to Food Preparation
- Advanced Food Preparation (CCP)
- Advanced Baking Honors (CCP)

THE HEALTH OCCUPATIONS PROGRAM

Health Science education at East Hartford High School is an inherent part of Career and Technical Education and postsecondary preparation. The Health Science program provides students with high-quality interdisciplinary instruction that deals with the application of science and technology to the delivery of healthcare.

The Health Science Technology and Patient Care Assistant courses are a part of Therapeutic Services Pathway. The Health Science and Technology concurrent enrollment course gives students an opportunity to earn three college credits through the College Career Pathways program at Manchester Community College. The Patient Care Assistant course provides students with the knowledge and clinical skills required to become a Certified Nursing Assistant.

Health Science education is an interdisciplinary subject that affords multifaceted opportunities for students to become prepared for careers and postsecondary education through interactive classroom instruction and industry-based fieldwork within the community.

Health Occupations Courses:

Health Science and Technology (CCP)
Patient Care Assistant – Certified Nurse’s Assistant class
Introduction to Public Health
ECE Medical Terminology



COLLEGE CAREER PATHWAYS PROGRAM: An Open Door to Your Future

The College Career Pathways program at East Hartford High School is a partnership between EHHS, Manchester Community College (MCC), and Gateway Community College (GCC) where students can earn college credits at no cost for completing dual enrollment classes at EHHS. Students do not need to attend MCC/GCC upon high school graduation in order to take advantage of this program. Agreements with the Connecticut State University System may allow credits to transfer to its universities (please speak with a school counselor or college admission counselor for specific details). EHHS students have the potential to earn between 3 – 21 college credits while still in high school. Below is the list of concurrent enrollment courses between EHHS and MCC/GCC.

EHHS Course	MCC Course
Accounting 2	ACC* 115 Financial Accounting
Advanced Baking Honors	HSP* 103 Principles of Baking I
Advanced Food Preparation	HSP* 101 Principles of Food Preparation
Advanced Personal Finance	BFN* 111 Financial Literacy

Automotive Maintenance and Systems: Engines	AUTO* 1031 Engine Repair
Computer Applications 2	BOT* 111 Keyboarding for Info Pro I

RESOURCES FOR PARENTS AND STUDENTS

EMPLOYMENT AND CAREER INFORMATION

<http://www1.ctdol.state.ct.us/lmi/index.asp> – Connecticut Labor Market Information

<http://www.bls.gov/ooh/> - Occupational Outlook Handbook

<http://www.onetonline.org/> - O*Net Online

<http://www.mynextmove.org/> - My Next Move – American Job Center Network

TRAINING RESOURCES

<http://www.capitalworkforce.org/> - Capital Workforce Partners

<http://www1.ctdol.state.ct.us/etc/> - Connecticut Labor Market Education & Training Connection

<http://www1.ctdol.state.ct.us/jcc/> - Job and Career Connection

<http://www.ct.edu/> - CT Community Colleges

ARTICLES

“10 Top Health Fields You Can Enter with an Associate Degree”

<https://www.communitycollegereview.com/blog/10-top-health-fields-you-can-enter-with-an-associate-degree>

Top 15 Highest Paying Trade Jobs in 2021

<https://theinterviewguys.com/highest-paying-trade-jobs/>

CAREER & JOB INFORMATION

30 blue-collar jobs with the highest salaries

<https://www.businessinsider.com/highest-paying-blue-collar-jobs-in-america>