

Career and Technology Education (Completer Programs)

COLLEGE AND CAREER READY

Students who graduate from CTE programs are successfully prepared to participate in post-secondary education and/or the work force.

CAREER READY students have the knowledge, skills and career experience to be successful in the modern day, competitive, workforce. CTE students have opportunities to earn industry certifications through technical skill testing and/or valuable program affiliations with professional organizations. CTE programs require industry-based curriculum, industrial grade equipment, specific teacher credentials and regular program monitoring by industry experts. In addition, program staff regularly meet with local businesses and colleges/post-secondary education institutions to make sure CTE programs provide students with the knowledge, skills, and experiences necessary to be successful in their chosen field. As a culminating experience, students who complete CTE programs have the opportunity to apply for career related internships to apply academic, technical and employability skills and knowledge in the work place.

COLLEGE READY students are prepared for the rigors of post-secondary education. Through extensive partnerships CTE students can earn college credits while still in high school (see table below). CCPS works with colleges to annually review CTE curricula and competencies to ensure alignment with college standards and expectations. Students can earn articulated credits for which they must meet certain criteria and enroll in the specific college/university. In some cases, students earn transcribed credit; credits awarded that transfer to other colleges/universities.

Key: @ H/ College 100+ Level- Most of the classes in this program are on either the 4.5 or 5.0 GPA level

*College awards credits on a transcript for qualifying students in this program whether they attend the college or not.

**Prerequisite- the following needs to be completed before attending the program.

<u>Construction and Development</u>			
Programs	Areas Certification/Professional Affiliation	College Credits	Schedule
Carpentry	NCCT Academic Carpentry	Comm College of Baltimore County 6 Pennsylvania College of Technology- up to 9	6 Credits SEM2 junior year SEM1 senior year MODS 2-3-4
Electrical Construction	<ul style="list-style-type: none"> ● OSHA-10 Certified Academic ● NCCT© Academic Core v2 ● National Registry (National Center for Construction Education and Research (NCCER) ● Contractors Apprenticeship 	NCCT Electrical Construction Comm College of Baltimore County 6 Fredrick Community College 7 Pennsylvania College of Technology TBD	
HVAC	NCCT Academic HVAC Associated Builders &	Community College of Baltimore Co. 22 Frederick Community College 10 Pennsylvania College of Tech -up to 12 University of Northwestern Ohio 6	
Masonry	NCCT Academic Masonry	Community College of Baltimore County 6 Pennsylvania College of Tech – up to 9	
<u>Consumer Services and Hospitality</u>			
Programs	Areas Certification/Professional Affiliation	College Credits	Schedule
<u>Culinary Arts:</u> Option 1: Professional Cook Option 2: Baking and Pastry	<ul style="list-style-type: none"> ● American Culinary Federation© (ACF)- Culinary Arts, Cook Level 2 Retail Commercial Baking Restaurant Association of Maryland ● ServSafe©- Food Safety: Manager Level 	Anne Arundel CC 6 Culinary Institute of America 3 Fredrick Community College 10 Howard Community College 7 Pennsylvania College of Technology TBD Stratford University 18	6 Credits SEM2 junior year SEM1 senior year Professional Cooking MODS 2-3-4 Baking & Pastry MODS 1-2-3

Consumer Services and Hospitality (continued)			
Programs	Areas Certification/Professional Affiliation	College Credits	Schedule / **Prerequisite
Cosmetology	<u>Maryland Board of Cosmetology Certification:</u> <ul style="list-style-type: none"> • Cosmetologist License • 1500 clinical hours 		9 Credits <u>3 semester program</u> MODS 2-3-4 SEM 1 & 2 junior yr & SEM 1 senior yr OR SEM 2 junior yr & SEM 1 & 2 senior yr (Recommended: ANAT & PHYS)
Textile and Fashion Careers	Garment Studio Construction© college level fashion curriculum	Stevenson University 6	6 Credits SEM2 junior year SEM1 senior year MODS 1-2-3
Health and Bioscience			
Programs	Areas Certification/Professional Affiliation	College Credits	Schedule / **Prerequisite
<u>@Biomedical Sciences-Project Lead the Way©</u> (Honors- AP/College Level)	The Biomedical Science program is certified by the nationally recognized, Project Lead the Way© program.	Frederick Community College 14 Indiana University of PA 12 Stevenson University *8 Missouri University of Science & Tech *12	4 Credits SEM2 junior year SEM1 senior year MODS 2-3 **ALGII / college prep Math & Sci each yr.
Academy of Health Prof: • @Pre-Nursing (Honors- AP/College Level)	Maryland State Board of Nursing Certifications: Certified Nursing Assistant (CNA), Geriatric Nursing Assistant, Medical Assistant Certification (CCMA) CPR Certification	Carroll Community College TBD Fredrick Community College 10 Pennsylvania College of Technology TBD Stevenson University 4 Community College of Baltimore Co. 3	5 Credits Senior year program SEM1 MODS 1-3 SEM2 MODS 1-2 ** Chem II. (Human Anatomy and Phys. recommended)
• @Physical Rehabilitation (Honors- AP/College Level)	Partners with local sports medicine and physical rehabilitation organizations	Carroll Community College 3	
• Career Nursing Assistant (Academic Level)	Certified Nursing Assistant (CNA), Geriatric Nursing Assistant	---	6 Credits SEM2 Jr year; SEM1 Sr year; MODS 2-3 **Biology (Academic Level)
• Dental Assistant (Academic Level) • Pharmacy Technician (Academic Level)	Radiation Health and Safety certification National pharmacy technician certification exams	Sr year Dual Enrollment at Carroll Comm Sr year Dual Enrollment at Carroll Comm	4 Credits SEM2 Jr year; SEM1 Sr year; MODS 2-3 **Biology (Academic Level) SEM2 Jr year; SEM1 Sr year; MODS 2-3 **Biology (Academic Level)
Human Resource Services			
Programs	Areas Certification/Professional Affiliation	College Credits	Schedule
@Criminal Justice/ Law Enforcement (Homeland. Sec. Emrgcy. Prep.) (Honors- AP/College Level)	Credit earned on a transcript for CRIM 101 through Carroll Community College*	Carroll Community College *3 Frederick Community College 3 University of Maryland Univ College 3	4 Credits SEM2 junior year SEM1 senior year MODS 2-3

Human Resource Services (continued)			
Programs	Areas Certification/Professional Affiliation	College Credits	Schedule / **Prerequisite
@Teacher Academy of Maryland (Honors- AP/College Level)	Praxis: Core or Praxis: ParaPro Qualifying students participate in CCPS middle school-based internships	3 credits @ Bowie State, Carroll Community College, Community College of Baltimore County, Coppin State, Frederick Community College, Frostburg, Hood College, Morgan State, Salisbury, St. Mary's, Stevenson, Towson	2 credits+ 1 semester program+ (Junior or senior year) MODS 2-3 then internship **H Child & Adolescent Development
Information Technology			
Programs	Areas Certification/Professional Affiliation	College Credits	Schedule
@Geographical Information Systems Technology <2 credit:Drone Option> (Honors- AP/College Level)	Qualifying students can earn transcribed college credits through Harrisburg University *Students have the option to learn how to fly drones and incorporate into GIST.	Community College of Baltimore Co. 3 Frederick Community College 3 Harrisburg University *3	4 Credits SEM2 junior year SEM1 senior year MODS 2-3 Drone Option MOD 4
@Networking/Cybersecurity (CISCO Networking®) (Honors- AP/College Level)	Cisco CCNA Security Certification Cisco CCNA Routing & Switching Certification	Carroll Community College TBD Comm College of Baltimore County 16 Fredrick Community College 18 Pennsylvania College of Technology TBD	6 Credits SEM2 junior year SEM1 senior year MODS 2-3-4
@Programming/ Cyber Operations (CISCO)® (Honors- AP/College Level)	LPI Linux Essentials Professional Development Certificate PCAP – Python Certified Associate Programmer CCNA Cyber Ops Certification	Carroll Community College TBD Comm College of Baltimore County 16 Fredrick Community College 18 Pennsylvania College of Technology TBD	6 Credits SEM2 junior year SEM1 senior year MODS 2-3-4
Manufacturing, Engineering, and Technology			
Programs	Areas Certification/Professional Affiliation	College Credits	Schedule / **Prerequisite
Applied Mechanical Engineering	National Institute of Metal Working Skills (NIMS®): ●Measurement, Materials, and Safety, Job Planning, ●Benchwork and Layout; other certifications, optional for qualified students	Community College of Baltimore County 17 Pennsylvania College of Technology TBD	SEM2 junior year SEM1 senior year MODS 2-3-4
Drafting	AutoCAD® Certification Test	Community College of Baltimore County 6 Fredrick Community College 6 Pennsylvania College of Technology TBD	SEM2 junior year SEM1 senior year MODS 2-3-4
@Engineering- Project Lead the Way® (Honors- AP/College Level)	Certified by the nationally recognized, Project Lead the Way®, program.	Community College of Baltimore County 6 Fredrick Community College 3 Pennsylvania College of Technology TBD *Rochester Institute of Technology 12 University of MD, Baltimore Co. 3 University of MD, Eastern Shore 6	5 Credits Junior Yr: MODS 2-3 (spring or fall) Senior Yr: 3 credits (spring or fall) **ALGII / college prep Math & Sci each yr.
Welding	American Welding Society (AWS) certification National Registry (National Center for Construction Education and Research (NCCER)) ●NCCT® Academic Core v2 ●OSHA-10 Certified	Fredrick Community College 13 Pennsylvania College of Technology TBD	6 Credits SEM2 junior year SEM1 senior year MODS 2-3-4

Transportation Technologies			
Programs	Areas Certification/Professional Affiliation	College Credits	Schedule
Automobile Service Technology	The National Institute for Automobile Service Excellence (ASE®) ●Brakes ●Maintenance & Light Repair ●Suspension/Steering ●Electrical/ Elec. Systems ●Engine Performance	Community College of Baltimore Co. 5 Montgomery Community College 7 Pennsylvania College of Tech Up to 15 Universal Technical Institute Up to 4 University of Northwestern Ohio Up to 12	6 Credits SEM2 junior year SEM1 senior year MODS 2-3-4
Collision Repair Technology	The National Institute for Automobile Service Excellence (ASE®) ●Non-Structural Analysis & Damage Repair ●Painting & Refinishing ●Structural Analysis & Damage Repair	Pennsylvania College of Tech. Up to 18	6 Credits SEM2 junior year SEM1 senior year MODS 2-3-4
Heavy Equipment and Truck Technology	The National Institute for Automobile Service Excellence (ASE®) ●Brakes ●Diesel Engines & Light Repair ●Electrical/ Electronic. Systems	Pennsylvania College of Technology- Up to 7 Universal Technical Institute Up to 4 University of Northwestern Ohio Up to 12	6 Credits SEM2 junior year SEM1 senior year MODS 2-3-4
Arts, Media, and Communication			
Programs	Areas Certification/Professional Affiliation	College Credits	Schedule / **Prerequisite
Print Production	PrintED - Graphic Arts Education & Research Foundation (GAERF) ● Graphic Communications ● Digital File Preparation /Digital File Output	Bridgemont Community & Technical College 16 Carroll Community College 3 Montgomery Comm. College 4	3 Credits : 1 semester program (Junior or senior year) MODS 2-3-4 **Principles of Art, Media, and Communications or H Comm Art
Video Production	Partnering with the Community Media Center (State of the art HD cameras and Final Cut Pro professional editing software)	Stevenson University 3 Art Institute 4	3 Credits : 1 semester program Jr OR Sr year : MODS 1-2-3 **Principles of Art, Media, and Communications or H Comm Art
@Interactive Media Design (Honors- AP/College Level)	(Only available at CCCTC for FSK, SCH and WHS. Other schools offer the program at their facility.)	College credit earned on a transcript through Carroll Community College: 3 credits)	3 Credits : 1 semester program Jr OR Sr year :MODS 1-2-3 **Principles of Art, Media, and Communications or