

## Career and Technology Education (Completer Programs)

### COLLEGE AND CAREER READY

**CAREER READY** means that our students can have the skills and career experience to be successful in the modern day, competitive, economy before they leave high school. One way this is achieved is by our affiliation with professional organizations so that our students can earn certifications. Many of these professional organizations require specific curriculum, industrial grade equipment, and teacher credentials. (as well as regular evaluations of our programs). Students benefit because they can earn valuable certifications that most student do not earn until after they graduate high school. (see table below)

**COLLEGE READY** means that students, who are successful in our programs, are prepared for the rigors of college and post-secondary institutions. Colleges annually evaluate most of our programs to make sure the curriculum, facilities, equipment and instructors measure up to college standards. We partner with these colleges so that students can earn college credits while still in High School. (see table below) Students must meet certain criteria in their program and attend those institutions after graduation to be awarded the college credit (or in some cases, the students receive those credits on a college transcript.)

**Internships:** Our programs regularly meet with local businesses and colleges/post-secondary education institutions to make sure our programs provide students with the skills and experience necessary to be successful in their chosen field. This prepares our students, who successfully complete our programs, the opportunity to apply for internships through our career coordinators. Our students regularly intern at the hospital, local auto service/collision companies, construction, the cancer institute, networking businesses, the highway administration, local law enforcement, sports medicine businesses and our own professional cosmetology salon and restaurant just to name a few.

<b><u>Arts, Media and Communication</u></b>				<b>Schedule / **Prerequisite</b>
Programs	Areas Certification/Professional Affiliation	College Credits		
Print Production	PrintED - Graphic Arts Education & Research Foundation (GAERF) <ul style="list-style-type: none"> <li>• Graphic Communications</li> <li>• Digital File Preparation /Digital File Output</li> </ul>	Bridgemont Community & Technical College Carroll Community College Fredrick community College Montgomery Comm. College	16 3 4 4	1 semester program (Junior or senior year) MODS 2-3-4 <b>**Graphic Comm or H Comm Art</b>
Video Production	Partnering with the Community Media Center (State of the art HD cameras and Final Cut Pro professional editing software)	Art Institute	4	1 semester program Junior or senior year MODS 1-2-3 <b>**Script Writing or Graphic Comm or H Comm Art</b>
<b><u>Construction and Development</u></b>				<b>Schedule / **Prerequisite</b>
Programs	Areas Certification/Professional Affiliation	College Credits		
Carpentry	<ul style="list-style-type: none"> <li>● OSHA-10 Certified</li> <li>● NCCT© Academic Core v2</li> <li>● National Registry (National Center for Construction Education and Research (NCCER))</li> <li>● Contractors Apprenticeship</li> </ul>	NCCT Academic Carpentry	Comm College of Baltimore County 6 Pennsylvania College of Technology TBD	SEM2 junior year SEM1 senior year MODS 2-3-4
Electrical Construction		NCCT Academic Electrical Construction	Comm College of Baltimore County 6 Fredrick Community College 7 Pennsylvania College of Technology TBD	
HVAC		NCCT Academic HVAC Associated Builders &		
Masonry		NCCT Academic Masonry		

<b>Consumer Services and Hospitality</b>			
Programs	Areas Certification/Professional Affiliation	College Credits	Schedule / **Prerequisite
Culinary Arts: Option 1: Professional Cook Option 2: Baking and Pastry	<ul style="list-style-type: none"> <li>●<u>American Culinary Federation© (ACF)</u>- Culinary Arts, Cook Level 2 Retail Commercial Baking</li> <li>●<u>ServSafe©</u>- Food manager</li> </ul>	Anne Arundel CC 3 Culinary Institute of America 3 Fredrick Community College 6 Howard Community College 7 Pennsylvania College of Technology TBD Stratford University 18	SEM2 junior year SEM1 senior year Professional Cooking MODS 2-3-4 Baking & Pastry MODS 1-2-3
Cosmetology	<ul style="list-style-type: none"> <li>●<u>Maryland Board of Cosmetology Certification</u>: Cosmetologist License</li> <li>●1500 clinical hours</li> </ul>		3 semester program MODS 2-3-4 SEM2 junior year SEM1 & SEM2 senior year <b>(Recommended: ANAT &amp; PHYS)</b>
Textile and Fashion Careers	Garment Studio Construction© college level fashion curriculum	Stevenson University 3	SEM2 junior year SEM1 senior year MODS 2-3-4
<b>Health and Bioscience</b>			
Programs	Areas Certification/Professional Affiliation	College Credits	Schedule / **Prerequisite
<u>*Academy of Health Professions: Nursing</u>	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	Senior year program SEM1 MODS 1-2-3 SEM2 MODS 1-2 <b>**CHEMISTRY II</b>
<u>*Academy of Health Professions: Physical Rehabilitation</u>	Partners with local sports medicine and physical rehabilitation organizations		
<u>*Biomedical Sciences-Project Lead the Way©</u>	The Biomedical Science program is certified by the nationally recognized, Project Lead the Way© program.	Frederick Community College 12 Indiana University of PA 14 Stevenson University 4 Missouri University of Science & Tech 12	SEM2 junior year SEM1 senior year MODS 2-3 <b>**ALGII / Math &amp; Science each yr</b>
<b>Human Resource Services</b>			
Programs	Areas Certification/Professional Affiliation	College Credits	Schedule / **Prerequisite
<u>*Homeland Security and Emergency Preparedness: Criminal Investigation</u>	Carroll Community College (allows students to sit for the Carroll County final exam for criminal justice)	University of Baltimore 3 Carroll Community College 3 Frederick Community College 3 University of Maryland Univ College 3	SEM2 junior year SEM1 senior year MODS 2-3
<u>Homeland Security and Emergency Preparedness: Geo Spatial Information Tech</u>		Community College of Baltimore County 3	

<b>Information Technology</b>			
Programs	Areas Certification/Professional Affiliation	College Credits	Schedule / **Prerequisite
CISCO Networking Academy©	<u>Cisco© Systems:</u> CISCO Certified Network Entry Technician (CCENT), CCNA, CompTia A+©	Comm College of Baltimore County 16 Fredrick Community College 18 Pennsylvania College of Technology TBD	SEM2 junior year SEM1 senior year MODS 2-3-4
*Computer Science- Project Lead the Way©	The Computer Science program is certified by the nationally recognized, Project Lead the Way©, program. College Board, AP Computer Sci A and AP Computer Sci Principles	Carroll Community College 7 Comm College of Baltimore County 10 Pennsylvania College of Technology TBD	SEM2 junior year SEM1 senior year MODS 2-3 <b>**ALGII / Math &amp; Science each yr</b>
<b>Manufacturing, Engineering, and Technology</b>			
Programs	Areas Certification/Professional Affiliation	College Credits	Schedule / **Prerequisite
Drafting	AutoCAD© Certification Test	Carroll Community College 3 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©	The Engineering program is 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 University of Maryland, Baltimore County 3 Rochester Institute of Technology 12	Junior yr MODS 2-3 (spring or fall) Senior yr 3 credits (spring or fall) <b>**ALGII / Math &amp; Science each yr</b>
Applied Mechanical Engineering	<u>National Institute of Metal Working Skills (NIMS©):</u> ●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
Welding	●OSHA-10 Certified ●NCCT© Academic Core v2 ●National Registry (National Center for Construction Education and Research (NCCER)) ●American Welding Society (AWS)	Fredrick Community College 13 Pennsylvania College of Technology TBD	SEM2 junior year SEM1 senior year MODS 2-3-4
<b>Transportation Technologies</b>			
Programs	Areas Certification/Professional Affiliation	College Credits	Schedule / **Prerequisite
Automobile Service Technology	●Brakes ●Maintenance & Light Repair ●Electrical/ Elec. Systems ● Engine Performance ●Suspension/Steering	Community College of Baltimore County 5 Pennsylvania College of Tech. 15(TBD max) Universal Technical Institute TBD (4 max) University of Northwestern Ohio 6	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	Community College of Balt. County 15 Pennsylvania College of Tech. 18 (TBD max)	SEM2 junior year SEM1 senior year MODS 2-3-4
Heavy Equipment and Truck Technology	●Brakes ●Diesel Engines ●Electrical/Electronic Systems	Community College of Baltimore County 5 Pennsylvania College of Tech. 15(TBD max) Universal Technical Institute TBD (4 max) University of Northwestern Ohio 12	SEM2 junior year SEM1 senior year MODS 2-3-4

