

# BUCKS COUNTY TECHNICAL HIGH SCHOOL

**2024-2025 CTE Program & College Credit Guide**



**“Where Careers Begin”**



## ABOUT BCTHS

Our mission, in cooperation with participating school districts, is to prepare all students for careers, post-secondary education, and life-long learning, by providing knowledge and practical skills through high-quality, integrated, standards-driven curriculum, access to current technologies, work-related experiences, and partnerships within the community.

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## What is a Local Articulation Agreement?

**A local articulation agreement is a formal partnership between a high school Career and Technical Education (CTE) program and post-secondary institutions, such as community colleges or universities, designed to streamline students' transition from secondary to higher education. These agreements allow students to earn college credits while still in high school by completing specific CTE courses that align with college-level coursework. The goal is to reduce redundancy, save time and money, and provide a seamless educational pathway in fields like healthcare, information technology, or automotive technology. This collaboration ultimately enhances students' career prospects and supports workforce development in the local community.**



## SOAR CREDITS

The Pennsylvania Department of Education (PDE) supports career and technical education students aligning their high school courses to a college program in order to complete a degree, diploma or certificate.

### What Is SOAR?

SOAR stands for *Students Occupationally and Academically Ready*. SOAR programs articulate skills and tasks gained at the secondary school (high school) level to course credit earned in a postsecondary (college) degree, diploma, or certificate program.

SOAR programs can help students:

- Prepare for entering the job market with college and career-ready skills
- Choose the best career pathway
- Save money on college tuition
- Save time by not duplicating coursework in college

### How Do I Qualify for SOAR Credits?

Qualified SOAR program students are eligible to apply for credits up to 16 months after their high school graduation date.

In order to qualify for SOAR program postsecondary credits a student must:

- Earn a high school diploma, with a minimum 2.75 GPA on a 4.0 scale in the technical core courses
- Complete the secondary school component of the approved PDE Program of Study
- Achieve proficiency on all tasks of the approved PDE Program of Study Competency Task List
- Achieve competent or advanced level on the secondary school end-of-program assessment that is appropriate for the approved PDE Program of Study



## **How Do I Find a College that Offers Articulated Credit with SOAR Program(s)?**

The [PA Bureau of CTE SOAR Programs Search](#).

CollegeTransfer.net shows how SOAR programs taken at the high school level may transfer into participating colleges, universities, and technical centers.

[Learn how to conduct a SOAR program search](#)

When conducting a search, a student will select a desired Program of Study and Graduation Year. Once the search is completed, the results displayed will indicate the institutions offering credit for the specific Program of Study. Comparable courses and credits awarded by each institution are also displayed. Select View Detail to see more information about the specific articulation.



BCTHS SOAR PROGRAM LIST	CIP
Landscaping and Floral Design	1.0601
Multi-Media Digital Design and Programming	11.0801
Baking and Pastry Arts	12.0501
Culinary Arts	12.0508
Electronics/Green Energy Technology	15.0303
Computer Systems Technology	15.1202
Civil Engineering Technology	15.1301
Child Development and Early Learning	19.0708
Emergency Services Technology	43.9999
Carpentry	46.0201
Electrical Occupations Technology	46.0399
Plumbing and Heating Technology	46.0503
Heating, Ventilation, Air Conditioning/Refrigeration	47.0201
Collision Repair Technology	47.0603
Automotive Technology	47.0604
Diesel Technology	47.0613
Machine Technology	48.0501
Welding and Fabrication Technology	48.0508
Commercial and Advertising Art	50.0402
Dental Health Careers	51.0601
Allied Health	51.9999



# **BUSINESS, ARTS, AND TECHNOLOGY**



## **Commercial and Advertising Arts Cluster**

### **CIP 50.0402**

#### **Program Overview**

This is a clustered technical class in the applied visual arts that combines into one career path and is taught by three separate instructors as follows: Commercial Art & Illustration, Digital Photography & Imaging, and Graphic Arts & Printing. The blended program prepares the creative student to use artistic techniques to effectively communicate ideas and information to business and consumer audiences via illustrations and other forms of printed media. This program includes instruction in concept design, illustration, digital photography, digital imaging, and graphic design. During each six-day technical rotation, the graphic design student is expected to rotate every day within the cluster, spending equal time with each of the three instructors. Graduates can take entry-level jobs in print shops, design studios, corporate art departments, photography studios, publishing houses, art studios, and advertising agencies or to further study graphic design, advertising/ marketing, fine arts, art therapy, and/or art education at a post-secondary institution.

#### **Industry Certifications**

Students in the Commercial & Advertising Art program have the opportunity to earn the following certifications:

- Adobe Certified Professional: Print & Digital Media Publication Using Adobe InDesign/Certiport
- Adobe Certified Professional: Visual Communication Using Adobe Photoshop/Certiport
- Adobe Certified Professional: Graphic Design & Illustration Using Adobe Illustration/Certiport
- OSHA Certification/CareerSafe
- OSHA Certification/Occ Safety and Health Admin (OSHA)

#### **Career Pathways Include But Are Not Limited To:**

- Commercial Artist
- Illustrator
- Digital Photographer
- Imaging Specialist
- Graphic Designer
- Print Production Specialist
- Prepress Technician
- Art Director
- Multimedia Artist
- Visual Effects Artist





## **Local Articulations**

### *Bucks County Community College*

The Commercial and Advertising Art program at BCTHS is most closely related to the Graphic Design (curriculum code 1110), Multimedia (curriculum code 1175), Photography (curriculum code 1195) degree programs; and Creative Arts and Entrepreneurship (curriculum code 3211) certificate program at Bucks County Community College. Competencies achieved in the Commercial and Advertising Art program at BCTHS are deemed potentially equivalent to the following Buckscourses:

VAFA160-Introduction to Printmaking OR VAFA161 - Screen Printing (3 credits)

VAGD99 - Graphic Design and Illustration elective (3 credits)

VAGD998- Graphic Design and Illustration elective (3 credits)

VAMM100- Digital Imaging (3 credits)

Equivalent credit awards are contingent upon courses fulfilling program requirements.

### *Pennsylvania College of Technology*

CAA students can earn up to 6 credits in Graphic Design, B.S. (BGD) or Advertising Art. AAA (AR) at Pennsylvania College of Technology.

Art180 Drawing (3 credits)

Pho150 Digital Photography (3 credits)

**PDE SOAR Credits** may also be available through Butler County Community College, Community College of Allegheny County, Harcum College, Harrisburg Area Community College, and Lehigh Carbon Community College.

[Click here for SOAR Credits CIP 50.0402](#)



## **Entrepreneurship & Small Business Development CIP 52.0701**

### **Program Overview**

The Entrepreneurship & Small Business Development program prepares students for self-employment and career opportunities in small businesses while fostering the student's entrepreneurial mindset. Students enrolled in this program will learn how to evaluate small business plans and marketing opportunities, technical and management skills, and broad accounting skills while understanding the resources necessary to start a business. Students will utilize a variety of computer applications and programs necessary for today's ever-changing workforce. An emphasis on employability and soft skills will allow for an easy transition once students graduate from the program. There is a high demand for skills related to the curriculum provided. This is an excellent foundation for direct entrance into today's workforce while still giving students the opportunity to pursue post-secondary education. It is directly focused on the practical, hands-on aspects of small businesses with many opportunities for real-world application with our numerous student-run businesses on campus. Students will be immersed in real-world application of skills while participating in our various student-run businesses: Tasty Tech Cafe, Bear Claw Goods, Career Consultation Services, Student Activities Office, and participation in their own virtual business during their junior and senior years.

### **Industry Certifications**

Certifications available to the successful Entrepreneurship & Small Business Development student include:

- Heartsaver AED, CPR & First Aid
- Internet & Computing Core Certifications (IC<sup>3</sup>)
- OSHA 10-Hour Safety Card
- S/P2 Human Resources
- S/P2 Soft Skills
- Microsoft Office Specialist (MOS)
- Microsoft Office Suite Word
- Microsoft Office Suite PowerPoint
- Microsoft Office Suite Publisher
- Microsoft Office Suite Excel
- National Retail Federation
- Small Business Administration
- Student - Social Media Marketing
- EverFi- Personal Finance, Entrepreneurship
- ServSafe Food Handler ACT
- National Career Readiness

### **Career Pathways Include But Are Not Limited To:**

- Small Business Owner
- Business Consultant
- Startup Founder
- Venture Capitalist
- Franchise Owner
- Social Entrepreneur
- Business Development Manager
- Product Manager
- E-commerce Specialist
- Innovation Manager



## **Local Articulation**

### *Bucks County Community College*

The Entrepreneurship & Small Business Management program at BCTHS is most closely related to the Business (curriculum code 2204) degree program at Bucks. Competencies achieved in the Entrepreneurship and Small Business Management program at

BCTHS are deemed potentially equivalent to the following Bucks courses:

MKTG110- Selling (3 credits)

MGMT110- Small Business Management (3 credits)



## **Multimedia Digital Design & Programming CIP 11.0801**

### **Program Overview**

The Entrepreneurship & Small Business Development program prepares students for self-employment and career opportunities in small businesses while fostering the student's entrepreneurial mindset. Students enrolled in this program will learn how to evaluate small business plans and marketing opportunities, technical and management skills, and broad accounting skills while understanding the resources necessary to start a business. Students will utilize a variety of computer applications and programs necessary for today's ever-changing workforce. An emphasis on employability and soft skills will allow for an easy transition once students graduate from the program. There is a high demand for skills related to the curriculum provided. This is an excellent foundation for direct entrance into today's workforce while still giving students the opportunity to pursue post-secondary education. It is directly focused on the practical, hands-on aspects of small businesses with many opportunities for real-world application with our numerous student-run businesses on campus. Students will be immersed in real-world application of skills while participating in our various student-run businesses: Tasty Tech Cafe, Bear Claw Goods, Career Consultation Services, Student Activities Office, and participation in their own virtual business during their junior and senior years.

### **Industry Certifications**

Certifications available to the successful Multimedia Digital Design & Programming student include:

- Adobe Certified Associate-Rich Media Communication
- Microsoft Office Specialist-Microsoft Access 2000, XP, 2003, 2007
- Adobe Certified Associate-Visual Communication
- Microsoft Office Specialist-Microsoft Excel 2000 XP, 2003, 2007
- Adobe Certified Associate-Web Communication
- Microsoft Office Specialist-Microsoft Excel Expert 2000, XP, 2003, 2007
- CareerSafe/OSHA
- Microsoft Office Specialist-Microsoft Outlook 2000, XP, 2003, 2007
- Certified Web Professional
- Microsoft Office Specialist-Microsoft PowerPoint 2000, XP, 2003, 2007
- Community First Aid and Safety
- Microsoft Office Specialist-Microsoft Project 2000, XP, 2003, 2007
- Heartsaver AED, CPR & First Aid
- Microsoft Office Specialist-Microsoft Word Expert Level 2000, XP, 2003
- Internet and Computing Core Certification (IC3)
- OSHA Certification
- Microsoft Office



### **Career Pathways Include But Are Not Limited To:**

- Web Developer
- UI/UX Designer
- Front-End Developer
- Back-End Developer
- Digital Content Creator
- Multimedia Specialist
- Web Content Manager
- Interactive Media Designer
- E-commerce Specialist
- Information Architect

### **Local Articulation**

#### *Bucks County Community College*

The Multi-Media/Digital Design program at BCTHS is most closely related to the Multimedia (curriculum code 1175) degree program and Creative Arts and Entrepreneurship (curriculum code 3211) certificate program at Bucks. Competencies achieved in the Multi-Media/Digital Design program at BCTHS are deemed potentially equivalent to the following Bucks courses:

VAMM100- Digital Imaging (3 credits)

VAMM110- Web and Interactive Design (3 credits)

VAMM999- Multimedia and Digital Arts Elective (3 credits)

**PDE SOAR Credits** may also be available through Bucks County Community College, Community College of Allegheny County, Delaware County Community College, Harrisburg Area Community College, Reading Area Community College, and Westmoreland County Community College.

[Click here for SOAR Credits CIP 11.0801](#)



# **Engineering & Industrial Technology: Construction**



## **Carpentry**

### **CIP 46.0201**

#### **Program Overview**

The Carpentry Program is designed to provide students with comprehensive knowledge and hands-on experience in the field of carpentry. The areas of study include construction safety, hand and power tools, estimating, blueprint reading, materials and fasteners, site layout, concrete forms, rough framing, exterior and interior finish, and green technology in construction.

Throughout the program, students will have the opportunity to apply their knowledge and skills in real-world carpentry projects, both individually and collaboratively. Guest speakers, field trips to construction sites, and industry certifications may also be incorporated to enhance the learning experience and prepare students for future success in the workforce. By the completion of the Carpentry Program, students will have developed a strong foundation in carpentry principles, gained practical experience in construction techniques, and acquired the essential skills and competencies needed for entry-level positions in the carpentry industry or further education in related fields.

#### **Industry Certifications**

Students in the Carpentry program have the opportunity to earn the following certifications:

- Articulated Ladder (0480)
- Mobile Ladder (0481)
- OSHA Certification (0036)
- S/P2 Construction
- Ramset PAF
- Single and Extension Ladder (0479)
- Step Ladder (0478)
- NOCTI Certification in Carpentry

#### **Career Pathways Include But Are Not Limited To:**

- Finish Carpenter
- Framing Carpenter
- Trim Carpenter
- Residential Carpenter
- Commercial Carpenter
- Industrial Carpenter
- Woodworker
- Construction Estimator
- Carpentry Instructor
- Carpenter's Apprentice

**PDE SOAR Credits** may also be available through Delaware County Community College, and Thaddeus Stevens College of Technology.

[Click here for SOAR Credits CIP 46.0201](#)



## **Civil Engineering**

### **CIP 15.1301**

#### **Program Overview**

Civil Engineering Technology incorporates elements of Land Surveying, Civil Engineering, Architecture (BIM), Mechanical Drafting and Modeling, Geographic Information Systems (GIS), and Construction Management into Coop centric learning experience, utilizing industry standard equipment and industry best practices. A common thread that runs through each of these disciplines is modeling/drafting, utilizing the following platforms on which we model/draft: Autodesk, Bentley, Carlson, and ArcGIS. Student workflows originate in the 3D modeling environment and continue through to 2D drafting and annotation. Civil Engineering Technology Students learn the basics of surveying, land improvement, and building in Civil Engineering Technology. Studies include mathematics, physics, civil drawing, blueprint reading, coordinate geometry, stormwater management, and environmental engineering office procedures, combined with extensive laboratory, drafting, and fieldwork. Graduates can obtain employment on surveying or construction teams in private or public practice or earn a college degree in Civil Engineering.

#### **Industry Certifications**

Students in the Carpentry program have the opportunity to earn the following certifications:

- Autodesk Certified User
- OSHA Certification- Occ Safety and Health Administration

#### **Career Pathways Include But Are Not Limited To:**

- |                            |                                |
|----------------------------|--------------------------------|
| ● Structural Engineer      | ● Construction Manager         |
| ● Transportation Engineer  | ● Urban Planner                |
| ● Geotechnical Engineer    | ● Surveyor                     |
| ● Environmental Engineer   | ● Project Manager              |
| ● Water Resources Engineer | ● Civil Engineering Technician |

#### **Local Articulation**

##### *Bucks County Community College*

The Civil Engineering Technology program at BCTHS is most closely related to the Engineering Technology (curriculum code 2193), Engineering (curriculum code 1028) and Advanced Technology (curriculum code 2207) degree programs, and Advanced Technology





(curriculum code 3207) certificate program at Bucks County Community College. Competencies achieved in the Civil Engineering Technology program at BCTHS are deemed potentially equivalent to the following Bucks courses:

ENGT999-Engineering Technology Elective (3 credits)

**PDE SOAR Credits** may also be available through Johnson College, Northampton County Area Community College, Thaddeus Stevens College of Technology, and Westmoreland County Community College.

[Click here for SOAR Credits CIP 15.1301](#)



## **Electrical Occupations Technology**

### **CIP 46.0399**

#### **Program Overview**

Students are introduced to fundamental physics and mathematics, learn the principles of DC and AC circuits, and how to interpret construction plans and electrical diagrams. They receive detailed practical instruction in residential, commercial, and industrial applications and troubleshooting including wiring, metering, security systems, motors, and controls. This comprehensive training prepares them to become journeymen electricians or progress to a degree in electrical engineering. After successfully completing this course, students will receive a one-year credit toward the evening apprenticeship program offered by BCTHS.

#### **Industry Certifications**

Students in the Electrical Occupations Technology Program have the opportunity to earn the following certifications:

- C-Tech Certifications
- CareerSafe/OSHA
- Heartsaver AED
- CPR & First Aid OSHA Certification

#### **Career Pathways Include But Are Not Limited To:**

- Electrician
- Electrical Technician
- Electrical Engineer
- Electrical Inspector
- Electrical Controls Specialist
- Electrical Maintenance Technician
- Electrical Design Technician
- Industrial Electrician
- Power Line Technician
- Electrical Project Manager

**PA statewide SOAR Credits** may also be available through Johnson College, and Rosedale Technical College.

[Click here for SOAR Credit CIP 46.0399](#)



## **Fine Woodworking CIP 48.0703**

### **Program Overview**

Students learn the necessary skills for drawing, designing, cutting, assembling, and finishing a woodworking project. Through a series of assigned woodworking projects, students learn to draw/read blueprints by hand and through our computerized drafting software, operate various tools & machinery, apply the finish in our spray booth, and install finished projects. Students will have the opportunity to be trained on all of our NEW state of the art machinery including our CNC Router, UpCut Cutoff Saw, Straight Line Rip Saw, SawStop Table Saws, Festool Miter Saws, Surface Planer, Jointers, Lathes, Shapers, Bandsaw, Scroll Saws, Panel Saw, Pocket-Hole Machine, Drill Press, Wide Belt Sander, Multi-Router, Spray booth, and many more!

### **Industry Certifications**

Students in the Woodworking program have the opportunity to earn the following certifications:

- Heartsaver AED, CPR & First Aid
- CareerSafe OSHA10 - Construction
- NOCTI Competent & Advanced Certificates
- NCCER Certification (National Center for Construction Education & Research)
- AWI (Architectural Woodwork Institute)

### **Career Pathways Include But Are Not Limited To:**

- Woodworker
- Cabinetmaker
- Furniture Maker
- Joiner
- Woodturner
- Millwork Technician
- Custom Wood Designer
- Woodworking Instructor
- Antique Restorer
- Woodworking Shop Owner

### **Local Articulation**

#### *Bucks County Community College*

The Fine Woodworking program at BCTHS is most closely related to the Fine Arts (Fine Woodworking track) (curriculum code 1001) degree program and Furniture and Cabinetmaking (curriculum code 3187) certificate program at Bucks County Community College. Competencies achieved in the Fine Woodworking program at BCTHS are deemed potentially equivalent to the following Bucks course:

VAFW100- Fine Woodworking Fundamentals (3 credits)

VAFW138- Table Systems (3 credits)

VAFW140- Cabinetmaking (3 credits)



## **HVAC/Refrigeration Technology**

### **CIP 47.0201**

#### **Program Overview**

Students study fundamental physics and mathematics, heat transfer, pipefitting and reading of schematics, and are given extensive theoretical and practical instruction in domestic, commercial, and industrial environmental control systems including protocols and safe measurement, handling, and reclamation practices of refrigerants. Graduates of HVAC/Refrigeration Technology can find many employment opportunities or continue their higher education in related engineering programs.

#### **Industry Certifications**

Students in the HVAC/Refrigeration Technology have the opportunity to earn the following certifications:

- Heartsaver AED, CPR & First Aid
- NCCER Credentials (various trades)
- OSHA Certification
- RSES Student Technician
- Student Outcome Assessment

#### **Career Pathways Include But Are Not Limited To:**

- HVAC Technician
- Refrigeration Technician
- HVAC Installer
- HVAC Service Manager
- HVAC Sales Representative
- Controls Technician
- Building Maintenance Engineer
- Energy Auditor
- HVAC System Designer
- HVAC Equipment Installer

**PA statewide SOAR Credits** may also be available through Community College of Allegheny County, Delaware County Community College, Greater Altoona Career and Technology Center, Johnson College, Luzerne County Community College, Northampton County Area Community College, Rosedale Technical College, Thaddeus Stevens College of Technology, and Westmoreland County Community College.

[Click here for SOAR Credit CIP 47.0201](#)



## **Landscape and Floral Design**

### **CIP 01.0601**

#### **Program Overview**

Landscaping & Floral Design students can choose to pursue either landscaping or floral design/floral shop management. In Landscaping, classroom and laboratory work covers plant identification, care and propagation, and greenhouse cup production. Graduates may enter the business world or go on to college studies in horticulture or forestry. In Floral Design/Floral Shop Management, students learn principles of design, display, and care of life, cut preserved, and artificial plant materials. Instruction is given in all phases of marketing and management. Graduates can begin commercial activities or study for a college degree in business.

#### **Industry Certifications**

Students in the Landscaping and Floral Design program have the opportunity to earn the following certifications:

- Heartsaver AED, CPR & First Aid
- Pennsylvania Pesticide Applicator Certification - Pennsylvania Department of Agriculture
- Certified Landscape Technician (CLT) - Pennsylvania Landscape & Nursery Association
- OSHA Certification - CareerSafe
- OSHA Certification - Agriculture - CareerSafe

#### **Career Pathways Include But Are Not Limited To:**

- Landscape Architect
- Landscape Designer
- Landscape Technician
- Groundskeeper
- Horticulturist
- Floral Designer (Florist)
- Nursery Manager
- Garden Center Sales Specialist
- Landscape Contractor
- Botanical Garden Curator

#### **Local Articulations**

*Bucks County Community College*



Students who successfully complete the Landscape and Floral Design program and the curriculum therein can receive University credit from Delaware Valley University for the following courses:

LAES Principles of Plant Protection (3 credits)

LAES 2016- Basic Plant Management (3 credits)

LAES 3260- Construction Materials (3 credits)

LAES 3117- Herbaceous Plant Materials (2 credits)

**PA statewide SOAR Credits** may also be available through Pennsylvania Highlands Community College.

[Click here for SOAR Credit CIP 01.0601](#)



## **Plumbing & Heating Technology**

### **CIP 46.0503**

#### **Program Overview**

Plumbing & Heating Technology prepares students for a career as a plumber, pipe fitter, sprinkler fitter, or drain cleaning mechanic. Instruction is given on principles of venting, water supply, drainage, heating, blueprint reading, and plumbing codes. Hands-on work covers the joining of copper, PVC, CPVC, and cast iron soil pipe, installation and maintenance of dishwashers, garbage disposals, faucets, and other fixtures. Graduates may enroll in apprenticeship programs or pursue a degree in chemical engineering.

#### **Industry Certifications**

Students in the Plumbing & Heating Technology program have the opportunity to earn the following certifications:

- OSHA - CareerSafe
- Heartsaver AED, CPR & First Aid
- EPA 608 Certification - Air Conditioning & Refrigeration Institute

#### **Career Pathways Include But Are Not Limited To:**

- Plumber
- Pipefitter
- Steamfitter
- Gas Fitter
- Water Treatment Specialist
- Plumbing Inspector
- Plumbing Contractor
- Sprinkler Fitter
- Piping Designer
- Maintenance Technician

**PA statewide SOAR Credits** may also be available through the Community College of Allegheny County, and Westmoreland County Community College.

[Click here for SOAR Credit CIP 46.0503](#)



# Engineering & Industrial Technology: Manufacturing





## **Computer Systems & Cybersecurity**

### **CIP 15.1202**

#### **Program Overview**

Computer Systems & Cybersecurity will prepare students to apply basic engineering principles and technical skills in support of professionals who use computer systems. This program includes instruction in basic computer design and architecture, programming, problems of specific computer applications, component and system maintenance and inspection procedures, hardware and software problem diagnosis and repair, and reports preparation. Also, Network and computer systems administrators are responsible for the day-to-day operation of an organization's computer networks. Students will learn how to organize, install, and support an organization's computer systems, including local area networks (LANs), extensive area networks (WANs), network segments, intranets, and other data communication systems.

#### **Industry Certifications**

Students in the Computer Systems & Cybersecurity program have the opportunity to earn the following certifications:

- A +
- CareerSafe/OSHA
- Certified Electronics Technician Associate (CETA)
- Heartsaver AED, CPR & First Aid
- Microsoft Certified Professional (MCP) Network +
- OSHA Certification Security
- Server

#### **Career Pathways Include But Are Not Limited To:**

- Network Administrator
- Security Analyst
- Systems Analyst
- Cybersecurity Specialist
- IT Support Specialist
- Penetration Tester
- Information Security Manager
- Network Engineer
- Incident Responder
- Systems Architect

#### **Local Articulation**

*Bucks County Community College*



Students can earn up to 4 credits in a Computer Networking Technology degree (curriculum code 2136) and certificate (curriculum code 3133) programs at Bucks County Community College. Competencies achieved at BCTHS are deemed potentially equivalent to the following Bucks County Community College course:  
CISC143-Essentials of Networking (4 credits)

**PA statewide SOAR Credits** may also be available through the Community College of Beaver County, Community College of Philadelphia, Pennsylvania Highlands Community College, and Reading Area Community College. [Click here for SOAR Credit CIP 15.1202](#)



## **Electronics/Green Energy Technologies**

### **CIP 15.0303**

#### **Program Overview**

The Electronics/Green Energy Technologies program is fully committed to training and certifying the large number of green-collar workers required worldwide to overcome the clean energy challenges of the 21st Century. Through local business partner networks of industry-aligned education, we will empower blue to white-collar workers to drive their careers forward in the green economy. As part of the Applied Engineering Technologies Cluster, students can earn a certification as an Electronics Technician (CET) while becoming trained in the renewable energy industry. Students can empower themselves with three (3) green technology skill sets and master the business of Alternative Energy. The course in Renewable Energy includes *Photovoltaic (Solar) Installer/Integrator*, *Small Wind Installer*, and a comprehensive hands-on study in the fields of *Computer Networking*, *Computer Maintenance*, *Mechatronics*, and *Electronics Technology*. This 4-year course puts students on the fast track to a Green Collar job. Students can become one of the first technicians to have a complete skill set for green jobs. OSHA Certification is also covered during the first year of the program.

#### **Industry Certifications**

Students in the Electronics/Green Energy Technologies program have the opportunity to earn the following certifications:

- CareerSafe/OSHA
- Heartsaver AED, CPR & First Aid
- OSHA Certification
- Student Electronics Technician (SET)
- Certified Electronics Technician Associate (CETa)

#### **Career Pathways Include But Are Not Limited To:**

- Electrical Engineer
- Renewable Energy Technician
- Electronics Technician
- Solar Panel Installer
- Wind Turbine Technician
- Electrical Systems Designer
- Green Building Consultant
- Power Systems Engineer
- Energy Efficiency Specialist
- Smart Grid Technician

#### **Local Articulation**

*Bucks County Community College*



The Electronics/Green Energy Technologies program at BCTHS is most closely related to the Engineering Technology (curriculum code 2193) and Advanced Technology (curriculum code 2207) degree programs, and Advanced Technology (curriculum code 3207) certificate program at Bucks County Community College.. Competencies achieved in the Electronics/Green Energy Technologies program at BCTHS are deemed potentially equivalent to the following Bucks course:

ENGT999- Engineering Technology Elective (up to 8 credits upon assessment)

**PA statewide SOAR Credits** may also be available through the Community College of Allegheny County, Johnson College, Northampton County Area Community College, and Westmoreland County Community College.

[Click here for SOAR Credit CIP 15.0303](#)



## **Machine Technology**

### **CIP 48.0501**

#### **Program Overview**

Machine Technology students will learn practical mathematics, precision measurement and blueprint reading. Once students master the proper use and safe handling of basic machine trade hand tools, they will study set-up and operation of band saws, drill presses, lathes, milling machines and precision grinders. Work also covers heat-treating and use of optical comparators. Emphasis is placed on computer-controlled (CNC) operations. Graduates are qualified to enter apprenticeship programs or pursue studies leading to a degree in mechanical engineering.

#### **Industry Certifications**

Students in the Machine Technology program have the opportunity to earn the following certifications:

- CareerSafe/OSHA
- Heartsaver AED, CPR & First Aid
- OSHA Certification
- NIMS Machining Level 1

#### **Career Pathways Include But Are Not Limited To:**

- |                            |                                   |
|----------------------------|-----------------------------------|
| ● CNC Machinist            | ● Quality Control Inspector       |
| ● Machine Tool Operator    | ● Tool and Die Maker              |
| ● Manufacturing Technician | ● Automation Technician           |
| ● Maintenance Technician   | ● Machining Center Setup Operator |
| ● Production Supervisor    | ● Industrial Engineer             |

**PA Statewide SOAR Credits** may also be available through Butler County Community College, Delaware County Community College, Johnson College, Luzerne County Community College, Reading Area Community College, Thaddeus Stevens College of Technology, and Westmoreland County Community College.

[Click here for SOAR Credit CIP 48.0501](#)



## **Mechatronics Technology**

### **CIP 47.0199**

#### **Program Overview**

Mechatronics Engineering Technologies introduces state-of-the-art technology that is used in today's high-tech manufacturing industries. Integrated systems will prepare students for post-high school education and/or future occupations by giving them career, business, and technical knowledge. Students aspiring to become engineers and technicians will learn the essential skills needed to prepare for the high-performance manufacturing workplace of the 21st Century. Students will gain skills and the knowledge needed for a career in design engineering as they learn each aspect of the design process. Graphic design also includes the use of advanced 2D and 3D CAD as well as parametric design software. Solid works and inventor software are also used. Students will learn quality control, electricity/electronics, mechanical systems, automation and material handling, and manufacturing processes.

#### **Industry Certifications**

Students in the Mechatronics Technology program have the opportunity to earn the following certifications:

- CareerSafe/OSHA
- OSHA Certification
- Certified Electronics Technician Associate (CETa)
- PMMI Heartsaver AED, CPR & First Aid
- Student Electronics Technician (SET)
- Microsoft Office Specialist – Microsoft Word – Expert Level (2000, XP, 2003)

#### **Career Pathways Include But Are Not Limited To:**

- |                              |                                 |
|------------------------------|---------------------------------|
| ● Automation Technician      | ● Mechanical Systems Technician |
| ● Robotics Technician        | ● Electromechanical Technician  |
| ● Maintenance Technician     | ● Systems Integrator            |
| ● Industrial Electrician     | ● Field Service Technician      |
| ● Control Systems Technician | ● CNC Technician                |

#### **Local Articulation**

##### *Bucks County Community College*

The Mechatronics Engineering Technologies program at BCTHS is most closely related to the Engineering Technology (curriculum code 2193) and Advanced Technology (curriculum code 2207) degree programs; and Advanced Technology (curriculum code 3207) certificate program at Bucks. Competencies achieved in the Mechatronics Engineering Technologies program at BCTHS are deemed potentially equivalent to the following Bucks course:



ENGT999- Engineering Technology Elective (up to 8 credits upon assessment)

## **Welding and Fabrication Technology**

### **CIP 48.0508**

#### **Program Overview**

Students who choose Welding & Fabrication Technology will learn basic and advanced blueprint reading, fabrication, and ferrous and non-ferrous metallurgy. Laboratory instruction includes shielded metal arc welding, oxyacetylene welding MIG and TIG techniques. Theoretical and practical studies cover mild and alloy steels, aluminum, titanium and other exotic metals. Students learn the basics of heat treating, and non-destructive testing and inspection. Instruction meets AWS standards. Graduates can enter apprenticeship programs or go on to degree studies in metallurgy or mechanical engineering.

#### **Industry Certifications**

Students in the Welding and Fabrication Technology program have the opportunity to earn the following certifications:

- CPR for Family & Friends
- Heartsaver AED, CPR & First Aid
- Level I – Entry Welder
- NCCER Credentials
- OSHA Certification

#### **Career Pathways Include But Are Not Limited To:**

- |                      |                          |
|----------------------|--------------------------|
| ● Welder             | ● Pipefitter             |
| ● Fabricator         | ● Metal Fabricator       |
| ● Welding Inspector  | ● Maintenance Technician |
| ● Welding Engineer   | ● Sheet Metal Worker     |
| ● Welding Technician | ● Structural Ironworker  |

**PA statewide SOAR Credits** may also be available through Community College of Allegheny County, Delaware County Community College, Greater Altoona Career and Technology Center, Harrisburg Area Community College, Johnson College, Thaddeus Stevens College of Technology, and Westmoreland County Community College.

[Click here for SOAR Credit CIP 48.0508](#)



# Engineering & Industrial Technology: Transportation





## **Automotive Technology**

### **CIP 47.0604**

#### **Program Overview**

Advancements in automobile safety, fuel management, and comfort have led to an increasing reliance on computers and electronic components that make cars operate efficiently. Today's auto technicians must be well-educated and continue training to stay on the cutting edge of advances in computer and electronic technology. They also must be skilled in all aspects of mechanical repair procedures and knowledgeable about service intervals and similar maintenance requirements on a wide variety of vehicles. The need for technicians to understand electrical/electronics, is going to be one of the most important skills in vehicle repairs today. Students will have hands-on practice with digital multimeters, test lights, lab scopes, and a variety of scan tools. Students will learn and understand OHMS law application, voltage, amperage, and current. In addition, the proper way to test and service batteries, starters, and charging systems will be taught. Lighting systems, gauges, and electrical accessories are also included in this program. Students will complete 230 hours of engine performance discipline and will experience hands-on practices with special tools and equipment to understand the general engine diagnosis, computer engine controls, ignition systems, fuel, air, and exhaust systems.

#### **Industry Certifications**

Students in the Automotive Technology program have the opportunity to earn the following certifications:

- ASE (Automotive Service Excellence Certification)
- OSHA Certification
- AYES Certification
- PA Emission Certification
- Certified Emissions Inspector
- PA Safety Inspection License
- Certified Safety Inspector, Cat 1
- S/P2
- Section 609 Certification for Refrigerant, Recycling & Recovery
- Heartsaver AED, CPR & First Aid

#### **Career Pathways Include But Are Not Limited To:**

- Automotive Diagnostic Technician
- Automotive Service Technician
- Automotive Body Repairer
- Automotive Parts Specialist
- Automotive Service Advisor
- Automotive Electronics Technician
- Transmission Specialist
- Engine Performance Specialist
- Hybrid and Electric Vehicle Technician
- Service Manager

**PA SOAR Credits** may also be available through Allegany College of Maryland, Community College of Allegheny County, Community College of Philadelphia, Delaware County Community College, Harrisburg Area Community College, Johnson College, Lancaster County



Career and Technology Center, Luzerne County Community College, Northampton County Area Community College and Rosedale Technical College.

[Click here for SOAR Credits CIP 47.0604](#)



## **Collision Repair Technology**

### **CIP 47.0603**

#### **Program Overview**

The Collision Repair Technology program is designed to equip students with the skills and knowledge required to become proficient entry-level technicians in the collision repair industry. Utilizing state-of-the-art equipment and the latest industry techniques, the program provides comprehensive training on the complete vehicle repair process following a collision.

Throughout the program, students will gain expertise in vehicle construction, disassembly and reassembly, non-structural and structural repairs, refinishing, and estimating. Additionally, they will develop skills in pre-delivery processes, including detailing and final inspection. By the end of the program, students will be adept at restoring vehicles to their pre-accident condition, ensuring they meet the highest standards of quality and safety.

#### **Industry Certifications**

Students in the Collision Repair Technology program have the opportunity to earn the following certifications:

- ICAR Academy Certificates of Achievement ( credits applied to I-Car role certification)
- S/P2 Collision Repair Safety (Annual)
- S/P2 Collision Repair Pollution Prevention (Annual)
- Section 609 certification for Refrigerant Recycling & Recovery

#### **Career Pathways Include But Are Not Limited To:**

- |                              |                              |
|------------------------------|------------------------------|
| ● Auto Body Technician       | ● Automotive Refinisher      |
| ● Collision Repair Estimator | ● Damage Appraiser           |
| ● Paint Technician           | ● Auto Body Parts Specialist |
| ● Auto Body Repairer         | ● Service Manager            |
| ● Frame Technician           | ● Auto Body Shop Owner       |

**PA SOAR Credits** may also be available through Thaddeus Stevens College of Technology, and Rosedale Technical College.

[Click here for SOAR Credits CIP 47.0603](#)



## **Diesel Technology**

### **CIP 47.0613**

#### **Program Overview**

Diesel Technology students study basic mathematics, physics, and operating principles of the diesel cycle and will become familiar with tools, test instrumentation, and shop equipment. In the classroom and laboratory, students learn engine disassembly and diagnosis using highly sophisticated test equipment. Expertise is developed in troubleshooting, repair, overhaul, and tune-up of engines, cooling, and electrical systems. Graduates can find employment opportunities or proceed to a college degree in diesel engineering.

#### **Industry Certifications**

Students in the Diesel Technology program have the opportunity to earn the following certifications:

- Automotive Service Excellence Certification (ASE)
- Heartsaver AED, CPR & First Aid
- CareerSafe/OSHA
- OSHA Certification
- Certified Emissions Inspector
- Outdoor Power Equipment Technician Certification
- Certified Safety Inspector, Cat I
- S/P2
- Certified Safety Inspector, Cat III
- Section 609 Certification for Refrigerant Recycling & Recovery
- Bendix Air Brake Certification

#### **Career Pathways Include But Are Not Limited To:**

- |                            |                                     |
|----------------------------|-------------------------------------|
| ● Diesel Mechanic          | ● Fleet Maintenance Technician      |
| ● Diesel Technician        | ● Heavy Equipment Mechanic          |
| ● Diesel Engine Specialist | ● Diesel Performance Tuner          |
| ● Diesel Service Manager   | ● Diesel Emissions Technician       |
| ● Diesel Parts Specialist  | ● Agricultural Equipment Technician |

**PA SOAR Credits** may also be available through Johnson College, and Rosedale Technical College.

[Click here for SOAR Credits CIP 47.0613](#)



## **Outdoor Power Equipment**

### **CIP 47.0699**

#### **Program Overview**

Small gas engines are designed to provide students, do-it-yourselfers, and aspiring technicians with practical information about small gas engine theory, construction, operation, lubrication, maintenance, troubleshooting, service, rebuilding, and repair. Students enrolled in the Outdoor Power Equipment (OPE) program will find it beneficial to have a thorough understanding of engine fundamentals and service procedures.

#### **Industry Certifications**

Students in the Outdoor Power Equipment (OPE) program have the opportunity to earn the following certifications:

- CareerSafe/OSHA
- Heartsaver AED, CPR & First Aid
- OSHA Certification
- Outdoor Power Equipment Technician Certification
- S/P2

#### **Career Pathways Include But Are Not Limited To:**

- |                                     |   |
|-------------------------------------|---|
| ● Marine Service Technician         | ● Outdoor Power Equipment Service Advisor |
| ● Small Engine Mechanic             | ● Diesel Engine Technician                |
| ● Equipment Service Manager         | ● Equipment Rental Technician             |
| ● Agricultural Equipment Technician | ● Recreational Vehicle (RV) Technician    |
| ● Power Equipment Sales Specialist  |   |
| ● Turf Equipment Technician         |   |

#### **Local Articulation**

A student who has mastered the competencies and skills outlined for their program of study in the Outdoor Power Equipment program at BCTHS may qualify for awarded credits as outlined below:

TEC 199 Applied Technical Studies A.A.S (30 Credits)



# Health and Human Services



## **Allied Health**

### **CIP 51.9999**

#### **Program Overview**

This college-level cluster program provides a sequence of secondary technical core and academic courses in a program of study. Students will learn to apply knowledge and skills in a variety of healthcare settings. The competencies outlined cover the specific areas of instruction for the program. Clinical education is an integral part of the program. Science and math courses taught by certified teachers will be coordinated and deemed essential for students to successfully reach their career objectives and post-secondary education.

The ideal healthcare worker for any Allied Health career should possess the following traits as identified in the PA Career Guide: Attention to detail, excellent oral and written communication, emotional stability and maturity, computer skills, and critical thinking. Math and science skills are important in most allied health occupations. A passion for the profession and caring for people is important.

#### **Industry Certification**

Certifications available to the successful Allied Health student include:

- CareerSafe/OSHA
- OSHA Certification
- Nurse Aide Registry
- Healthcare Provider BLS
- Heartsaver AED, CPR & First Aid

#### **Career Pathways Include But Are Not Limited To:**

- Medical Assistant
- Physical Therapy Assistant
- Occupational Therapy Assistant
- Radiologic Technologist
- Dental Hygienist
- Emergency Medical Technician (EMT)
- Respiratory Therapist
- Medical Laboratory Technician
- Cardiovascular Technologist
- Health Information Technician

**PA SOAR Credits** may also be available through the Greater Altoona Career and Technology Center and Pierce College.

[Click here for SOAR Credits CIP 51.9999](#)



## **Baking & Pastry Arts**

### **CIP 12.0501**

#### **Program Overview**

The Baking & Pastry Arts curriculum provides theoretical and practical knowledge for students to become professional bakers, cake decorators, or bakery managers. Students will learn necessary food technology, study the preparation of loaves of bread, and sweet goods, and decorating in the classroom and laboratory. Students learn procurement, costing, pricing, and other elements of retail marketing and management. Graduates can find employment in bakeries, restaurants, and institutions or go on to college studies in food technology or as a pastry chef.

#### **Industry Certifications**

Students in the Baking & Pastry Arts program have the opportunity to earn the following certifications:

- CareerSafe/OSHA
- Heartsaver AED, CPR & First Aid
- OSHA Certification
- Pennsylvania Food Employee Certification
- ServSafe
- SP2 Culinary Safety

#### **Career Pathways Include But Are Not Limited To:**

- |                  |                    |
|------------------|--------------------|
| ● Pastry Chef    | ● Chocolatier      |
| ● Baker          | ● Pastry Sous Chef |
| ● Cake Decorator | ● Production Baker |
| ● Bread Maker    | ● Catering Baker   |
| ● Confectioner   | ● Food Stylist     |

#### **Local Articulations**

##### *Bucks County Community College*

The Baking and Pastry Arts program at BCTHS is most closely related to the Hospitality Management (curriculum code 2022), Baking and Pastry Arts (curriculum code 2220), Culinary Arts (curriculum code 2210) degree programs; and Culinary Arts (curriculum code 3154) and Baking and Pastry Arts (curriculum code 3150) certificate programs at Bucks County Community College. Competencies achieved in the Baking and Pastry Arts program at BCTHS are deemed potentially equivalent to the following Bucks courses:

CULN110- Basic Food Preparation and Management (4 credits)





CULN111-Advanced Food Preparation and Management (4 credits)

CULN130-Baking and Decorating - Techniques and Procedures (3 credits)

*Delaware Valley University*

Students who successfully complete the Baking and Pastry Arts program can receive University credit from Delaware Valley University for the following courses:

FS-1205 Principles of Cooking (3 credits)

FS-3225 Purchasing Food, Bev, and Equipment (3 credits)

FS-4222 Foodservice Operations (3 credits)

**PA SOAR Credits** may also be available through the Delaware County Community College, Luzerne County Community College, Montgomery County Community College, Pennsylvania Highlands Community College, and Westmoreland County Community College.

[Click here for SOAR Credits CIP 12.0501](#)



## **Child Development and Early Learning**

### **CIP 19.0708**

#### **Program Overview**

The Child Development and Early Learning program is designed for students who have a sincere desire to teach and care for young children. It prepares students for either an entry-level position in the childcare industry or to pursue a college degree in early childhood education or elementary education.

Students will spend approximately 100 hours per year observing and working with preschool children in local licensed childcare centers. Students will observe different styles of teaching and different philosophies of education. Students will rotate through classrooms with children ranging in age from 3 months- 6 years and apply knowledge learned in class to practical situations in the preschool settings

#### **Industry Certifications**

Students in the Carpentry program have the opportunity to earn the following certifications:

- PA and NOCTI Skills Certificates
- Pediatric CPR and First Aid
- CDA (Child Development Associate) *Ready Certification*
- NIMS Children in Disaster Certificate
- OSHA Certification

#### **Career Pathways Include But Are Not Limited To:**

- Early Childhood Educator
- Childcare Center Director
- Preschool Teacher
- Infant/Toddler Specialist
- Family Support Specialist
- Early Interventionist
- School Readiness Coordinator
- Child Development Specialist
- Early Childhood Program Coordinator
- Parent Educator

#### **Local Articulation**

##### *Bucks County Community College*

The Child Development and Early Learning program at BCTHS is most closely related to the Pre K-4 Early Education (curriculum code 4192) and Education- Paraprofessional Instructional Assistant (curriculum code 2034) degree program at Bucks County Community College. Competencies achieved in the Child Development and Early Learning program at BCTHS are deemed equivalent to the following Bucks courses:



EDUC105- Foundations for Early Learning Pre K-4 (3 credits)

EDUC115- Observing and Recording the Behavior of Young Children (3 credits)

EDUC120- Early Learning and Development I -ages birth-5 (3 credits)

HLTH140- Cardiopulmonary Resuscitation (1 credit); contingent upon current CPR certification (1 Credit) and enrollment in the Education - Paraprofessional Instructional Assistant Program (curriculum code 2034)

**PA statewide SOAR Credits** may also be available through Community College of Beaver County, Harcum College, Luzerne County Community College, Montgomery County Community College, and Reading Area Community College.

[Click here for SOAR Credits CIP 19.0708](#)



## **Cosmetology**

### **CIP 12.0401**

#### **Program Overview**

The Pennsylvania State Board of Cosmetology requires 1250 hours of training for operators and cosmetology students receive much more than just the minimal requirements for licensing. Classroom and salon work provides in-depth training in all hair, skin, and nail techniques. Upon completion of the curriculum, students will be adequately prepared to take the State Board theory and practical examination.

#### **Industry Certifications**

Students in the Cosmetology program have the opportunity to earn the following certifications:

- Cosmetologist Licensure
- SP2 Certification
- Keratin Complex
- Babe Hair Extensions

#### **Career Pathways Include But Are Not Limited To:**

- Hair Stylist
- Barber
- Esthetician
- Nail Technician
- Makeup Artist
- Salon Manager
- Cosmetology Instructor
- Product Sales Representative
- Spa Technician
- Image Consultant

#### **Local Articulation**

##### *Bucks County Community College*

The Cosmetology program at BCTHS is most closely related to the Technical Entrepreneurship (curriculum code 2070) degree program at Bucks. Competencies achieved in the Cosmetology program at BCTHS are deemed potentially equivalent to the following Bucks courses:

Technical Competencies/Trade Skills (20 credits) MGMT280 Management Internship (3 credits) dependent on internship verification.



## **Culinary Arts**

### **CIP 12.0508**

#### **Program Overview**

Culinary Arts instruction begins with basic food technology, nutrition, and menu planning. Kitchen and dining room operations in the classroom, laboratory, and serving areas cover portion control, food and beverage control, procurement, costing, and pricing. Graduates can find wide employment in the retail food, hospitality, and tourism industries as well as in institutional fields, or go on to college studies.

#### **Industry Certifications**

Students in the Culinary Arts program have the opportunity to earn the following certifications:

- CareerSafe/OSHA
- Certified Culinarian (CC)
- Heartsaver AED, CPR & First Aid
- OSHA Certification
- Pennsylvania Food Employee Certification

#### **Local Articulation**

##### *Bucks County Community College*

The Culinary Arts program at BCTHS is most closely related to the Hospitality Management (curriculum code 2022), Baking and Pastry Arts (curriculum code 2220), Culinary Arts (curriculum code 2210) degree programs and Culinary Art (curriculum code 3154) certificate at Bucks County Community College. Competencies achieved in the Baking and Pastry Arts program at BCTHS are deemed potentially equivalent to the following Bucks courses:

CULN110-Basic Food Preparation and Management (4 credits)

CULN111-Advanced Food Preparation and Management (4 credits)

CULN130-Baking and Decorating - Techniques and Procedures (3 credits)

##### *Delaware Valley University*

Students who successfully complete the Culinary Arts program can receive University credit from Delaware Valley University for the following courses:

FS-1205 Principles of Cooking (3 credits)

FS-3225 Purchasing Food, Bev, and Equipment (3 credits)

FS-4222 Foodservice Operations (3 credits)



**Career Pathways Include But Are Not Limited To:**

- Chef
- Pastry Chef
- Restaurant Manager
- Food Service Director
- Caterer
- Baker
- Food Critic
- Culinary Instructor
- Food Stylist
- Sous Chef

**PA SOAR Credits** may also be available through the Delaware County Community College, Harrisburg Area Community College, Luzerne County Community College, Montgomery County Community College, Community College of Philadelphia, Pennsylvania Highlands Community College, and Westmoreland County Community College.

[Click here for SOAR Credits CIP 12.0508](#)



## **Dental Health Careers**

### **CIP 51.0601**

#### **Program Overview**

Students enrolled in Dental Health Careers will study basic anatomy, physiology, pharmacology, bacteriology, and medical and dental terminology. Classroom and laboratory work will cover X-ray technique, sterilization and chair side assisting. Instruction is provided in-office procedures including dental records, insurance, and scheduling. Dental Health Careers prepares students with the basic foundation to pursue the many dental specialties available. Most of our students continue their education in colleges majoring in such programs as Dental Hygiene, Expanded Function Dental Assisting (EFDA), and Pre-Dentistry.

#### **Industry Certifications**

Certifications available to the successful Dental Health Careers student include:

- CareerSafe/OSHA
- CPR for Family & Friends
- Heartsaver AED, CPR & First Aid
- OSHA Certification Radiation Health & Safety (RHS)

#### **Career Pathways Include But Are Not Limited To:**

- |                                |                                  |
|--------------------------------|----------------------------------|
| ● Dental Assistant             | ● Periodontist                   |
| ● Dental Hygienist             | ● Endodontist                    |
| ● Dental Laboratory Technician | ● Prosthodontist                 |
| ● Dental Surgeon               | ● Oral and Maxillofacial Surgeon |
| ● Orthodontist                 | ● Dental Office Manager          |



## Emergency Services

### CIP 43.9999

#### Program Overview

Emergency Services Technology prepares students to apply the technical knowledge and skills required to perform entry-level duties as a police officer, firefighter, paramedic, and other safety services. This program stresses the techniques, methods, and procedures particular to the areas of criminal justice and fire protection, especially in emergency and disaster situations. Physical development and self-confidence skills physics, students receive training in social and psychological skills, map reading, vehicle and equipment operations, the judicial system, pre-hospital emergency medical care, and appropriate emergency assessment, treatment, and communication.

#### Industry Certifications

Certifications available to the successful Emergency Services Technology student include:

- American Heart Association Basic Life Support CPR/AED Certification
- Hazardous Materials Awareness- Pennsylvania State Fire Academy
- NIMS IS 100
- NIMS IS 200
- NIMS IS 700
- NIMS IS 800
- Emergency Medical Technician (EMT)- Pennsylvania Department of Health
- Emergency Medical Technician (EMT)- National Registry of Emergency Medical Technicians
- OCAT- Oleoresin Capsicum Aerosol Training
- PATH- Practical and Tactical Handcuffing
- PPBT- Personal Protection Baton Tactics
- MOAB- Management of Aggressive Behavior
- Bloodborne Pathogens Certificate of Completion- Pennsylvania Department of Health
- 12- Lead ECG Training Certificate of Completion- Pennsylvania Department of Health
- Automated External Defibrillation (AED)
- HIPPA Employee Training
- OSHA Certification
- OSHA10- Healthcare
- Certificate of Training – Hazardous Materials First Responder Awareness





### **Career Pathways Include But Are Not Limited To:**

- Firefighter
- Paramedic
- Emergency Medical Technician (EMT)
- Police Officer
- Emergency Management Specialist
- 911 Dispatcher
- Search and Rescue Technician
- Hazardous Materials (HazMat) Technician
- Emergency Room Technician
- Disaster Recovery Specialist

### **Local Articulation**

#### *Bucks County Community College*

The Emergency Services Technology program at BCTHS is most closely related to the Criminal Justice (curriculum code 1189) and Fire Science (curriculum code 2158) degree programs at Bucks. Competencies achieved in the Emergency Services Technology program at BCTHS are deemed potentially equivalent to the following Bucks courses:

FRSC100-Introduction to Fire Science (3 credits); contingent upon IFSAC or Pro-Board certification for Fire Fighter I

HLTH110-Responding to Emergencies (3 credits); contingent upon current Automatic Electronic Defibrillator (AED), Cardiopulmonary Resuscitation (CPR) and EMT/First Aid certification

BIOL115-Basic Human Anatomy (3 credits); contingent upon current EMT certification

Equivalent credit awards are contingent upon courses fulfilling program requirements.

#### *Pennsylvania College of Technology*

Students can earn up to 15 credits in Emergency Management and Homeland Security, B.S. EHM, or EHD) at Pennsylvania College of Technology.

BEM101 Introduction to Emergency Response (3 credits)

HSJ 263 Criminal Justice (3 credits)

BEM Directed Emergency Management Elective (3 credits)

Open Elective (3 credits)

Open Elective (3 credits)

**PA SOAR Credits** may also be available through Harrisburg Area Community College, Luzerne County Community College, Lackawanna College, Community College of Philadelphia, and Pennsylvania Highlands Community College.

[Click here for SOAR Credits CIP 43.9999](#)



## **SCHOOL TO CAREER OPPORTUNITIES**

The purpose of this program is to provide students, before graduation, a real opportunity to acquaint themselves with the inevitable "World of Work".

Junior and Senior students are eligible to participate in the School- to- Career program after completing a pre-evaluation form.

It is a privilege for students to partake in the School-to-Career Program. Students are not required to participate; therefore, they can be removed at any time. Due to strenuous liability and accountability issues, under no uncertain terms can this privilege be abused.

Students that participate in the School- to- Career Program must be at least 16 years old and complete a pre-evaluation that shows a positive: attendance, discipline, and academic record.

Students must provide their own transportation.

### **SERVICES OFFERED**

#### **CO-OP**

Students earn a wage, as well as, experience within the students' field of study.

#### **Internship**

The student is not financially compensated and is designed for experience only. Students may only participate in an internship for a limited amount of time.

#### **Job placement**

In the current economic climate securing a job is difficult; however, assistance is available, and every effort is made to place ALL students in jobs consistent with their Technical Field.