

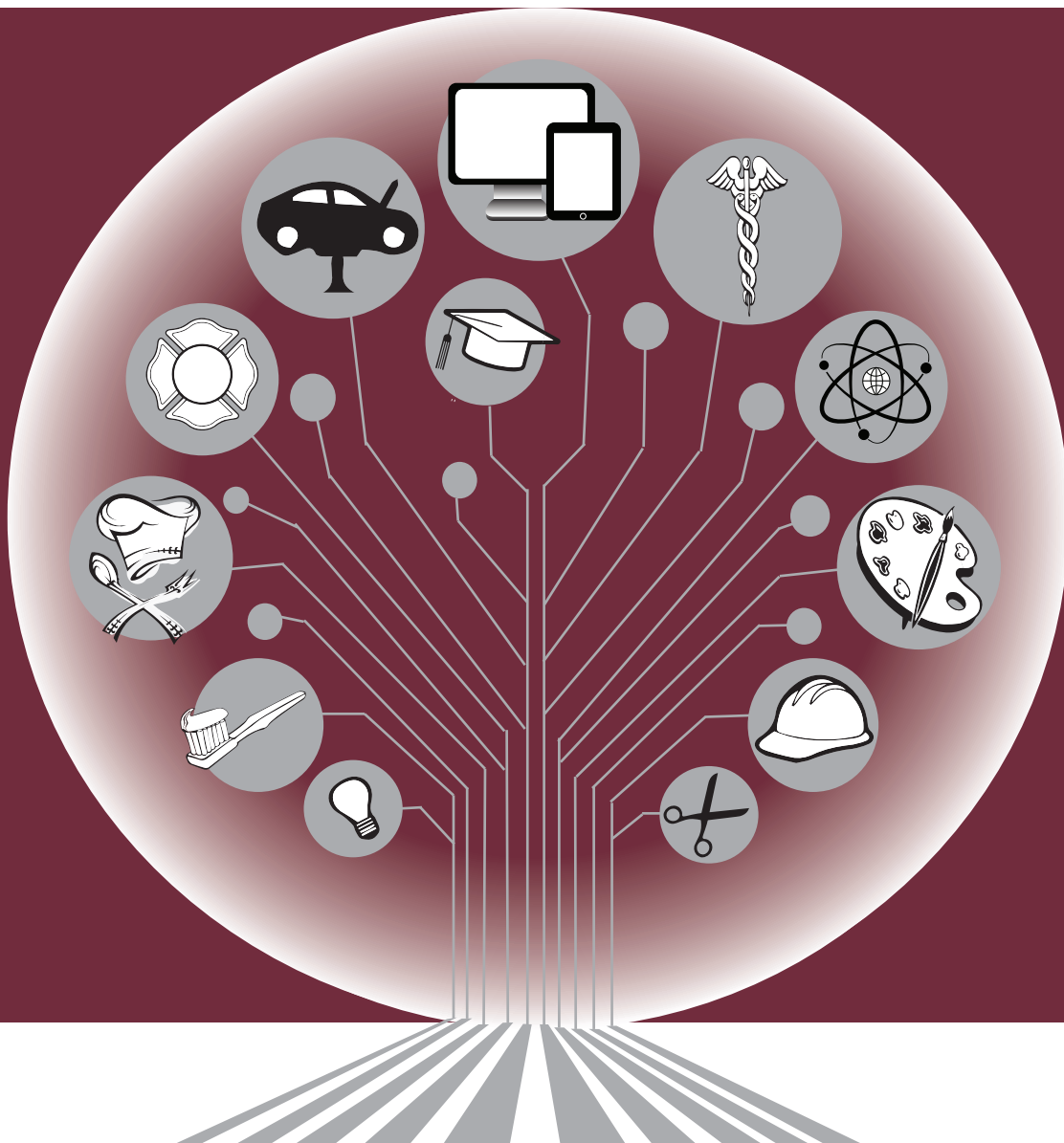


MIDDLE BUCKS
Institute of Technology

Preparing Tomorrow's Workforce Today

PROGRAM OF STUDIES

2017-2018



"Discover your future career"

www.mbit.org



Middle Bucks
Institute of Technology
"Preparing tomorrow's workforce today"

2017-2018

Program of Studies





2740 Old York Road • Jamison, PA 18929
Main: (215) 343-2480 Fax: (215) 343-8626
www.mbit.org

December 2016

Dear Parents/Guardians:

Allow me to introduce you to Middle Bucks Institute of Technology (MBIT). As a campus of your school district, your student has the unique opportunity to complete course work at our school **tuition free** while in high school. Students across America are recognizing the importance of developing a technical foundation, along with academic skills, before college or work. MBIT continues to be at the forefront of preparing students for greater success in college or in the increasingly competitive workforce. So you may acquaint yourself with our educational programs, the Program of Studies for the 2017-2018 school year follows for your review. Please take this opportunity to learn more about the twenty-two career and technical programs we offer, including our newest program, Sports Therapy & Exercise Management.

Students who are choosing to bundle their electives and enroll at MBIT are realizing such benefits as:

- ✓ Earning industry recognized certifications
- ✓ Earning college credits through numerous articulation agreements with area colleges and universities
- ✓ Confirming their desired career path
- ✓ Securing a solid “Plan B” to ensure multiple opportunities for work in a challenging economy

The best way to fully understand the educational opportunities at MBIT is to experience them firsthand. Therefore, we will be hosting a school-wide **Open House on Thursday, January 5, 2017** from **7:00 p.m. – 9:00 p.m.** In the event of inclement weather, we will reschedule our Open House to Thursday, January 12, 2017 from 7:00 p.m. – 9:00 p.m. You will have the opportunity to tour the building, meet with teachers, and see students working in the labs.

In addition, there will be MBIT representatives at the Program Planning Nights in every high school in Centennial, Central Bucks, Council Rock, and New Hope-Solebury School Districts. If your student is interested in applying to MBIT, an application form is enclosed. Simply complete the application and return it to the MBIT school counselor through the mail or email at applications@mbit.org. The application deadline is **April 1, 2017**. Please note that if your student is currently a student at MBIT, there is no need to complete a new application. A form will be sent home with your student in February/March for you to confirm enrollment at MBIT for the next school year.

Please take this opportunity to help secure your student’s future.

Sincerely,

Kathryn Strouse
Administrative Director

Mission Statement

“Preparing tomorrow’s workforce today”

Discover all that MBIT has to offer by visiting our website.

www.mbit.org



You can also learn more by following MBIT on social media.



MIDDLE BUCKS INSTITUTE OF TECHNOLOGY
 2740 Old York Road • Jamison, PA 18929
 Phone: 215-343-2480 Fax: 215-343-8626

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YOUR CAMPUS AT MIDDLE BUCKS INSTITUTE OF TECHNOLOGY

Middle Bucks Institute of Technology (MBIT) is located in Warwick Township on Old York Road (Route 263) in Jamison, Pennsylvania. The picturesque high school campus sits on 58 acres and is supported by Centennial, Central Bucks, Council Rock, and New Hope-Solebury School Districts. Middle Bucks Institute of Technology operates as a school of choice designed for students who are seeking to enhance their educational program with a highly relevant career and technical experience connected directly to the real world of business and industry. Over 400 business and industry advisors review and update the school's educational program annually. The MBIT experience provides students with a blend of classroom theory, technical applications in state-of-the-art laboratories, and off-campus work-based experiences. Students learn and apply reading, writing, mathematics, science, communications, and technology in a way that has personal meaning and career relevance.

The educational program is organized around ten broad career clusters and offers twenty-two state approved career pathway programs. Approximately 800 students attend the daytime program. In addition to secondary students, the school clientele includes approximately 500 adults who are enrolled in daytime, evening, and customized industry training programs. The school operates fall and spring sessions, with a summer enrichment program for middle school students. The staff consists of approximately thirty-five professional educators and thirty support personnel. Instruction is individualized, self-paced, and highly personalized.

Middle Bucks Institute of Technology prepares today's students for tomorrow's emerging technologies and provides students with the competitive edge needed for employment in a global marketplace and success in college.

APPLICATION AND SELECTION PROCESS

Students must complete the MBIT application process in order to be considered for admission. Selection is based on completion of selected program recommendations, aptitude and achievement scores, interest inventories, attendance records, behavior patterns, emotional stability, academic achievement, and a personal essay. Students are accepted based on the aforementioned variables and a quota system by district. Since many programs fill to capacity quickly, students should begin the application process early to ensure that a completed application package is on file at MBIT by **April 1st of the year prior to enrollment**. However, applications will be accepted anytime throughout the year. Applications may be obtained within this Program of Studies, from your School Counselor, on the MBIT website at www.mbit.org, or by calling Middle Bucks Institute of Technology at 215-343-2480.

To apply or obtain more information about secondary programs and services, contact the MBIT School Counselor at 215-343-2480 ext. 243. For more information about adult programs, contact the Adult Education Coordinator at 215-343-2480 ext. 108. You can also visit our website at www.mbit.org.

PROGRAM COSTS

Students are responsible for an activity fee, lab fees (where applicable), tools, supplies, and clothing for their particular program. The approximate costs associated with each program are listed under the "Program Requirements/Estimated Costs" section of each course description.

CAREER ASSESSMENT

Career assessment services are intended to help secondary students and adults make a career decision by identifying their technical aptitudes and interests, and are available at no charge to secondary students in each of the four sending districts. A testing center has been created at MBIT with staff trained in test administration and analysis. For more information or to have your child tested, please contact either your child's School Counselor or MBIT's Programs and Services Assistant at 215-343-2480 ext. 218.

COLLEGE AND UNIVERSITY CONNECTIONS

Middle Bucks Institute of Technology has a variety of college and university connections available to students including career pathway articulation agreements. Articulation agreements provide college advanced credits and are in place with many post-secondary institutions including, but not limited to, Bucks County Community College, Culinary Institute of America, Delaware Valley University, Gwynedd Mercy University, Johnson and Wales University, and Pennsylvania College of Technology. Students can earn from six to twelve credits toward an associate's degree, bachelor's degree, or certification at these or other post-secondary institutions. See each career pathway description for specific college connections.

Articulation Agreement Benefits:

- Save money on college tuition
- Save time by shortening college attendance
- Get on the right career pathway
- Enter the job market ready
- Receive a consistent, seamless education



The mission of SOAR (Students Occupationally and Academically Ready) is to prepare students for college and careers in a diverse, high-performing workforce. SOAR is the career and technical Program of Study (POS) educational plan that articulates the secondary career and technical programs to post-secondary degree, diploma, or certificate programs. SOAR programs prepare today's students for High Priority Occupations (HPO) which include career categories that are in high demand by employers, have higher skills needs, and are most likely to provide a family sustaining wage.

Upon the successful completion of the required academics and technical competencies earned at MBIT, POS students may qualify for several free credits in their major at participating colleges across Pennsylvania. SOAR programs offer qualifying students advanced credit(s) with partnering postsecondary institutions in aligned CTE programs. To learn more about advanced college credit opportunities articulated with postsecondary institutions, go to the equivalency search results at www.CollegeTransfer.net.

FLEXIBLE SCHEDULING OPTIONS

Middle Bucks Institute of Technology attempts to accommodate the scheduling needs of all students through a flexible range of options. The school day at MBIT is divided into two sessions: A session (7:45 a.m. to 10:25 a.m.) and B session (11:30 a.m. to 2:15 p.m.). Each session is divided into two 80-minute periods for a total of four periods per day. Session assignments are made by MBIT staff based on each student's educational or achievement level. Most students schedule their educational program at MBIT for two periods (2 hrs. 45 mins.) per day. While our programs are designed to be completed in three years, students with a specific goal may attend for one semester (18 wks.) or one year (36 wks.). If a student's academic schedule does not accommodate any of these options, every attempt will be made to customize a schedule to fit an individual student's unique situation.

ACADEMIC COURSEWORK

All students are expected to schedule a rigorous sequence of academic courses to support their MBIT program and plan for a strong academic foundation. This foundation is necessary to prepare students for success in college and/or career advancement. The specific sequence of science, math, English, and social studies should be discussed with the School Counselors at your participating school.

ADVANCEMENT AND PROMOTION

Instruction in all programs at MBIT begins with establishing a core technical foundation of knowledge and skills. The sequential curriculum enables students to build on the foundation of skills established in one level and progress to the next or advanced level. Consequently, students are expected to make continuous and satisfactory progress each year before advancing to the next progressive level. Students mastering a significant number of competencies (e.g., 70%) for their assigned level and achieving a final grade of C or better shall be promoted to the next progressive level the following year. Students unable to achieve this benchmark standard shall be rescheduled into the same level the next year should they consider continuing in the same major field of study. Students who are unable to achieve a minimum standard of 25% task completion or who receive a final grade of F will be required to consider other educational options.

Furthermore, students are expected to supplement their technical program with a thorough sequence of academic courses at their high school. For most students, this constitutes a minimum three (3) years of academic math, four (4) years of academic English, and two (2) years of lab science. Failure to satisfactorily complete a rigorous academic sequence of courses will jeopardize a student's ability to continue in their program of study at MBIT.

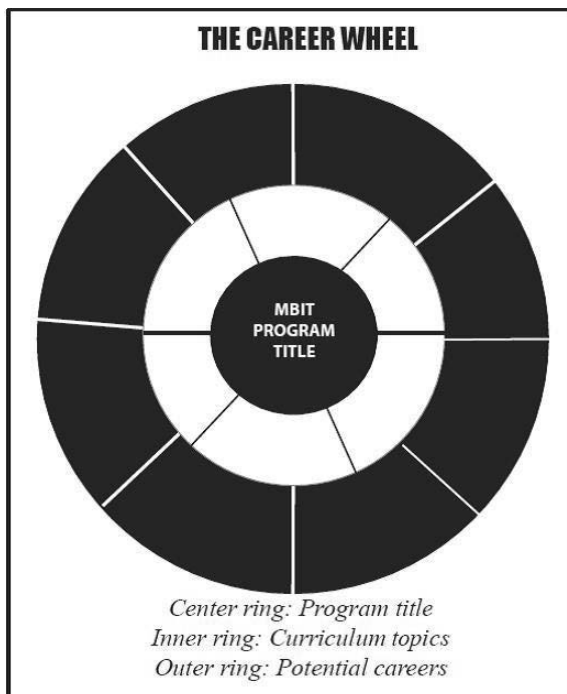
THE EDUCATIONAL PROGRAM

The educational program at Middle Bucks Institute of Technology is organized into ten broad career clusters and twenty-two career pathways (e.g., major courses of study).

Typically, students enroll in one career pathway as their major field of study, then complete a core set of courses common to the career cluster and a technical sequence of courses related to their career pathway. Students may complete additional specialized courses as they advance beyond the standard secondary curriculum.

The career cluster model is recognized as one of the most effective educational initiatives for preparing students for the new economy.

THE CAREER WHEEL



Architecture & Construction Career Cluster Pathways:

- ❖ Building Trades Occupations
- ❖ Computerized Drafting & Engineering Graphics
- ❖ Electrical Technology
- ❖ HVAC & Plumbing Technology
- ❖ Horticulture Landscape & Design
- ❖ Residential Construction

Arts, A/V Technology Communications Career Cluster Pathways:

- ❖ Commercial Art & Design
- ❖ Multimedia Technology

Health Science Career Cluster Pathways:

- ❖ Dental Occupations
- ❖ Medical & Health Professions
- ❖ Sports Therapy & Exercise Management

Hospitality & Tourism Career Cluster Pathway:

- ❖ Culinary Arts & Science

Human Services Career Cluster Pathways:

- ❖ Cosmetology
- ❖ Early Childhood Care & Education

Information Technology Career Cluster Pathways:

- ❖ Networking & Operating Systems Security
- ❖ Web Design & Interactive Media

Law, Public Safety & Security Career Cluster Pathway:

- ❖ Public Safety

Manufacturing Career Cluster Pathway:

- ❖ Welding Technology

Science, Technology, Engineering & Mathematics Career Cluster Pathway:

- ❖ Engineering Related Technology

Transportation, Distribution & Logistics Career Cluster Pathways:

- ❖ Automotive Technology
- ❖ Collision Repair Technology

Architecture & Construction Career Cluster

BUILDING TRADES OCCUPATIONS

Instructor: Michael Sykes
CIP Code: 46.0401

This nationally recognized Residential Construction Academy (RCA) accredited instructional program, in conjunction with the National Association of Home Builders (NAHB) and the Home Builders Institute (HBI), prepares students for career paths and employment opportunities in the construction industry through technical knowledge and skills in the building, repair, and general maintenance of residential building and other structures. The program provides instruction in a number of the construction trades including: structural carpentry, finish carpentry, millwork, plumbing, electricity, masonry, concrete, tile setting, installing hardware, heating, ventilation, waterproofing, roofing, siding, drywall, painting, regular tool and machine maintenance, environmental control systems, and record keeping. Students learn to use hand and power tools, construction materials, estimating, blueprint reading, and construction safety. Graduates of this program are prepared for employment in construction fields or may pursue specialized training through an apprenticeship and/or post-secondary education.



AVAILABLE INDUSTRY CERTIFICATIONS

American Ladder Institute Safety Training
OSHA 10 Hour Safety
PBA Skills Certificate
Residential Construction Academy National Registry

COLLEGE ADVANCED CREDITS

Bucks County Community College
Pennsylvania College of Technology

PROGRAM RECOMMENDATIONS

Ability to adhere to strict safety regulations
Ability to work in teams
Ability to work in various weather conditions
Easily adapts to multiple skill set disciplines
Hand-eye coordination
Mathematics fundamentals
Physical stamina
Read and interpret technical material at grade level

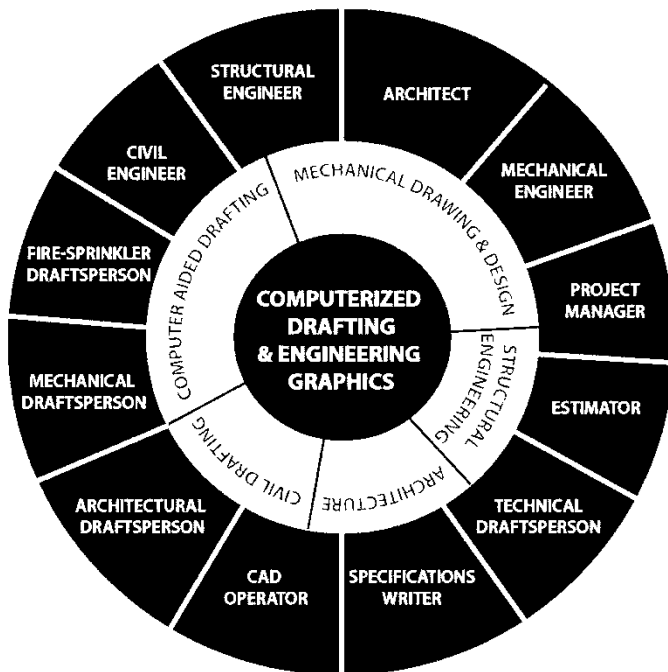
PROGRAM REQUIREMENTS/ESTIMATED COSTS

Appropriate uniform attire (approximately \$75)
OSHA 10 Hour Safety (approximately \$25)
Tool belt and selected tools (approximately \$150)

COMPUTERIZED DRAFTING & ENGINEERING GRAPHICS

Instructor: Craig Malinowski
CIP Code: 15.1301

This nationally recognized American Design Drafting Association (ADDA) accredited instructional program prepares students in the areas of: planning, preparing and interpreting mechanical, architectural, structural, civil GPS, electrical/electronic, topographic, piping, tool and die, and other drawings. Instruction is provided in manual pencil drafting and Computer-Aided Design (CAD) techniques using the latest versions of AutoCAD, Autodesk Revit, and Google Sketchup software packages. Instruction in the use of reproduction materials, equipment and processes, development of detailed drawings and 3D solid modeling is provided. This program meets industry standards through curriculum, professional development and state-of-the-art equipment. Students complete an architectural house project, which includes working drawings, specifications, 3-dimensional perspective rendering, and a scale model. Each student develops a professional portfolio. This program is designed for students who plan to pursue an associate or baccalaureate degree in engineering or architecture.



AVAILABLE INDUSTRY CERTIFICATIONS

ADDA Certified Drafter
Green Advantage
OSHA 10 Hour Safety

COLLEGE ADVANCED CREDITS

Art Institute of Pittsburgh
Bucks County Community College
Pennsylvania College of Technology

PROGRAM RECOMMENDATIONS

Basic computer skills
Read and interpret technical material at grade level

PROGRAM REQUIREMENTS/ESTIMATED COSTS

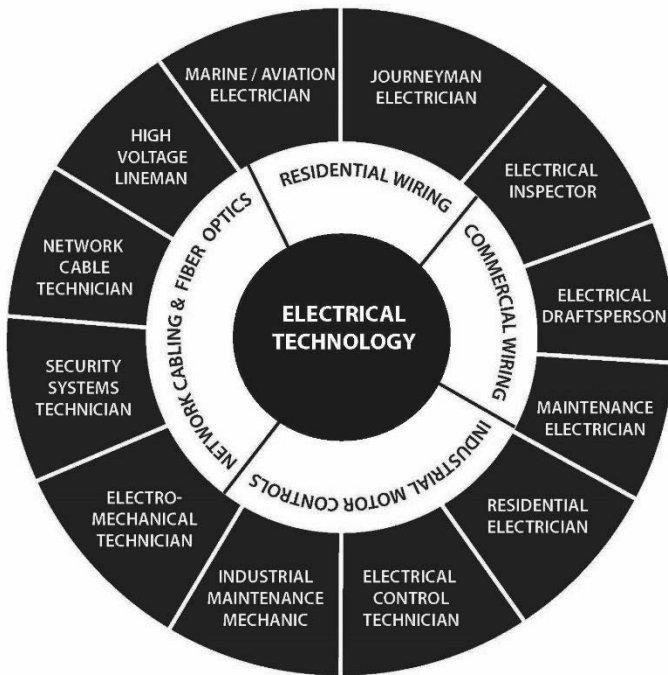
Appropriate uniform attire (approximately \$12)
OSHA 10 Hour Safety (approximately \$25)

ELECTRICAL TECHNOLOGY

Instructor: Randall McDowell

CIP Code: 46.0399

This Pennsylvania Builders Association (PBA) endorsed program prepares individuals to apply technical knowledge and skills necessary to lay out, assemble, install, operate, maintain, test and repair electrically-energized residential, commercial, and industrial systems, DC and AC motors, generators, transformers, controls, programmable logic controllers, and electrical distribution panels. Instruction emphasizes the application of mathematics and science, electron theory and Ohm's Law. Program instruction includes: single and three phase, delta and wye systems; both low (110 v. – 220 v.) and high voltages (440 v. and higher); reading and interpretations of commercial and residential construction wiring codes and specifications (e.g., National Electrical Code); installation and maintenance of wiring; service; and distribution networks within large construction complexes. Students will also receive instruction in solar and wind generation. They will build circuits powered by a 600 watt solar panel and a 400 watt windmill, and will be able to trace the distribution of the power generated by these green technology components. Students will be prepared for entry-level employment in the electrical and cabling industry in residential, commercial, and industrial settings. This program provides an excellent foundation of technical knowledge for college and/or direct employment.



AVAILABLE INDUSTRY CERTIFICATIONS

American Ladder Institute Safety Training
C-Tech Introduction to Network Cabling in Copper Based Systems and Fiber Based Systems
OSHA 10 Hour Safety
PBA Skills Certificate

COLLEGE ADVANCED CREDITS

Bucks County Community College
Pennsylvania College of Technology
Triangle Tech

PROGRAM RECOMMENDATIONS

Color perception
Hand-eye coordination
Mathematics fundamentals
Physical stamina
Read and interpret technical material at grade level

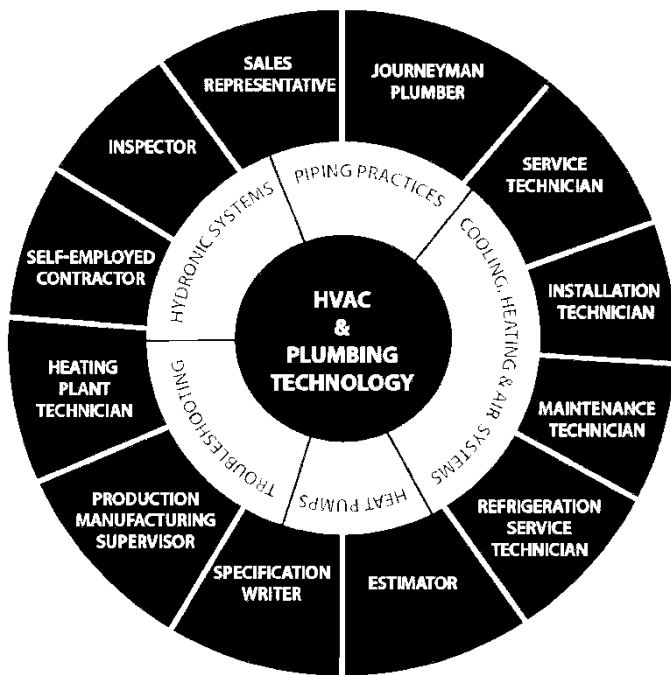
PROGRAM REQUIREMENTS/ESTIMATED COSTS

Appropriate uniform attire (approximately \$50)
OSHA 10 Hour Safety (approximately \$25)
Tool belt and selected tools (approximately \$100)

Architecture & Construction Career Cluster
HVAC & PLUMBING TECHNOLOGY

Instructor: Jeffrey Muschlitz
 HVAC CIP Code: 47.0201 Plumbing CIP Code: 46.0503

These Pennsylvania Builders Association (PBA) endorsed programs have been designed around a business, industry, and national skills standards model. These programs use project-based methods and national performance standards to instruct and evaluate students in a variety of careers in the mechanical and building maintenance industries. Students receive highly technical instruction that prepares them for an entry-level position using their academic and technical knowledge and skills to install, service and maintain heating, air conditioning, and plumbing systems. Instruction includes: daily theory and hands-on application of basic principles of heating, ventilation, air conditioning, refrigeration and plumbing systems; installation of rough-in plumbing systems in frame construction and installation of rough-in plumbing systems in ground; installation of residential plumbing fixtures, garbage disposals, kitchen and bath faucets, hot water heaters, gas fuel piping; installation of residential cooling systems and heating systems; installation of refrigeration systems, blueprint reading, drain cleaning methods, HVAC trouble shooting methods and component replacement. Instruction further includes: the use of ICC 2015 code books for plumbing, mechanical, and fuel/flue gas piping, basic hand tools, power tools and power equipment, refrigerant recovery equipment, manifold gauges, digital multi-meters and testing equipment. All students choosing this pathway will be enrolled in the Plumbing Technology program for their first year. During the second year of the program, students will focus their studies by selecting either the HVAC pathway or the Plumbing pathway.



AVAILABLE INDUSTRY CERTIFICATIONS

- American Ladder Institute Safety Training
- EPA 608 Certification for Refrigerant, Recycling and Recovery
- Gastite and Tracpipe Flexible Gas Piping
- NATE Core and Specialty Exams
- OSHA 10 Hour Safety
- PBA Skills Certificate

COLLEGE ADVANCED CREDITS

- Bucks County Community College
- Pennsylvania College of Technology
- Thaddeus Stevens College of Technology

PROGRAM RECOMMENDATIONS

- Algebra 1
- Color perception
- Hand-eye coordination
- Physical stamina
- Read and interpret technical material at grade level

PROGRAM REQUIREMENTS/ESTIMATED COSTS

- Appropriate uniform attire (approximately \$60)
- OSHA 10 Hour Safety (approximately \$25)
- Refrigerant Recovery License Exam fees (approximately \$25)
- Selected tools and reference materials (approximately \$95)

HORTICULTURE LANDSCAPE & DESIGN

Instructor: Gregory Smith

CIP Code: 01.0601

The Horticulture Landscape & Design program emphasizes the knowledge, understanding, and application necessary to establish, maintain, and manage landscaping, hardscaping, and horticultural enterprises. Through hands-on activities, the program will prepare students in all phases of landscape/hardscape design and installation, horticulture, nursery operation, and turf management. With an emphasis on residential home installation, students will learn the proper use of hand and power tools, skid steering loaders, construction materials, measuring and estimating, blueprint/plan reading, and job site safety. Students completing the Horticulture Landscape & Design program will have the knowledge and skills necessary to begin a career in landscaping, hardscaping, nursery and turf management fields. Practical experience is a major part of the program through operation and management of Middle Bucks Garden Center. Graduates will also have the ability to pursue associate or baccalaureate degrees in horticulture related fields.



AVAILABLE INDUSTRY CERTIFICATIONS

National Safe Tractor and Machinery Operator
OSHA 10 Hour Safety
PA Core Pesticide License
PA Pesticide Application
PLANET Landscape Safety Training

COLLEGE ADVANCED CREDITS

Bucks County Community College
Delaware Valley University
Pennsylvania College of Technology

PROGRAM RECOMMENDATIONS

Ability to work in various weather conditions
Effective written and oral communication skills
Mathematics fundamentals
Physical stamina
Read and interpret technical material at grade level

PROGRAM REQUIREMENTS/ESTIMATED COSTS

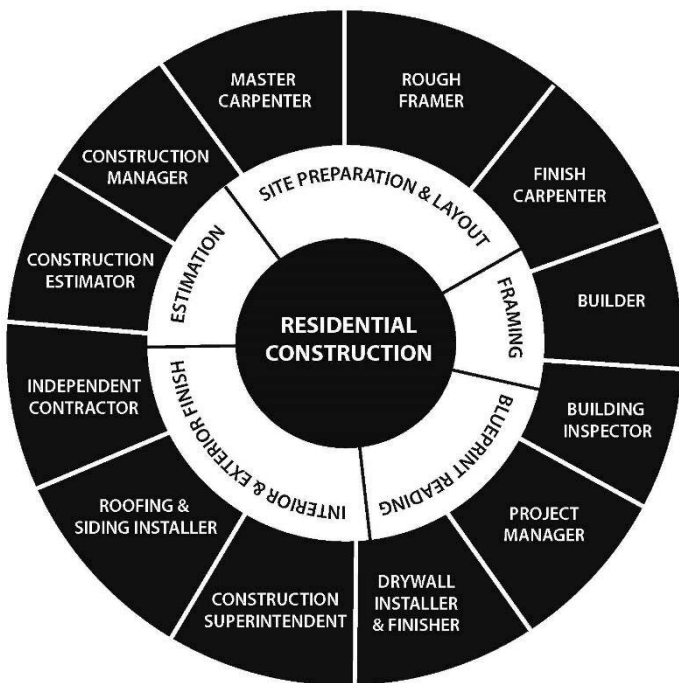
Activity fees (approximately \$50)
Appropriate uniform attire (approximately \$50)
OSHA 10 Hour Safety (approximately \$25)
PLANET Landscape Safety Training
(approximately \$45)

RESIDENTIAL CONSTRUCTION

Instructor: Anthony Rogers

CIP Code: 46.0201

This Pennsylvania Builders Association (PBA) endorsed and National Center for Construction Education and Research (NCCER) accredited instructional program, in conjunction with the National Association of Home Builders (NAHB), prepares students in all phases of building construction including: site layout, footing and foundation construction, framing systems, exterior finishes, insulation, drywall, finish carpentry and cabinet installations, all with emphasis on residential home construction. Students also learn the proper use of hand and power tools, construction materials, estimating, blueprint reading, and construction safety. In addition, students receive Core Curriculum, Carpentry Levels 1 and 2 training through the National Center for Construction Education and Research (NCCER) leading towards industry certification. A full-scale student-built house is constructed as a project in which advanced level students bring all their skills together as a culminating activity. Students will work in teams and under a variety of real occupational conditions. Students completing this program will be prepared to begin entry-level employment in construction carpentry and related trade areas. Students will also have the technical skills to pursue an associate or baccalaureate degree in construction-related fields such as construction technology.



AVAILABLE INDUSTRY CERTIFICATIONS

NCCER Carpentry Level 1
 NCCER Carpentry Level 2
 OSHA 10 Hour Safety
 PBA Skills Certificate
 Residential Construction Academy National Registry

COLLEGE ADVANCED CREDITS

Bucks County Community College
 Pennsylvania College of Technology
 Triangle Tech

PROGRAM RECOMMENDATIONS

Ability to adhere to strict safety regulations
 Ability to work in teams
 Ability to work in various weather conditions
 Hand-eye coordination
 Mathematics fundamentals
 Physical stamina
 Read and interpret technical material at grade level

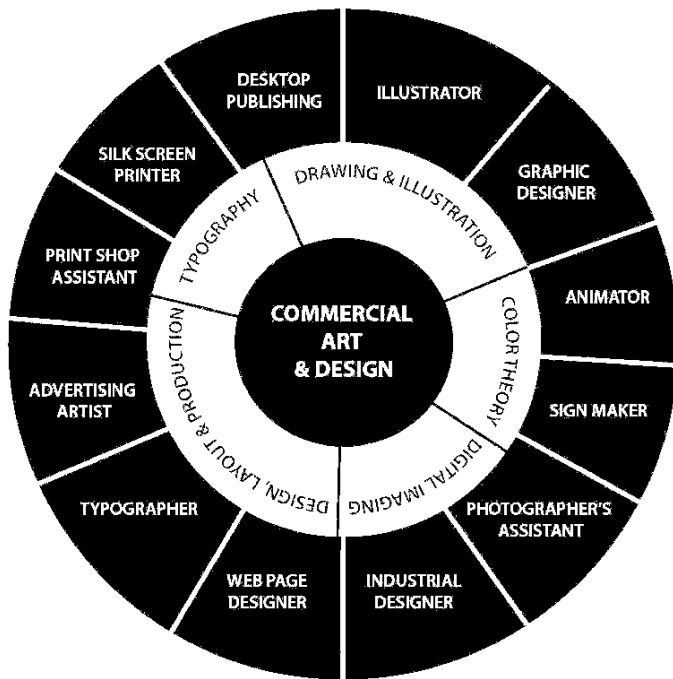
PROGRAM REQUIREMENTS/ESTIMATED COSTS

Appropriate uniform attire (approximately \$50)
 OSHA 10 Hour Safety (approximately \$25)
 Tool belt and selected tools (approximately \$50)

Arts, A/V Technology & Communications Career Cluster
COMMERCIAL ART & DESIGN

Instructor: Bradley Rosenau
 CIP Code: 50.0402

This program in the visual arts prepares serious art students in how to use artistic techniques to visually communicate ideas and information to business and consumer audiences using graphics and illustrations for print, web, and video media. Using a project-based approach, students gain experience through real-world projects that foster an understanding of the roles and processes across a broad range of careers in visual design. The structure of the class simulates a professional graphic design studio. The course will develop an art student's skill and knowledge in the foundations of commercial art and allow them to explore, in depth, a wide variety of art techniques and processes in both traditional and state-of-the-art simulations including: hand drawing and illustration, color theory and application, digital imaging and digital file management, design layout and production, typography, digital photography, silk screen printing techniques, safety and the professional preparation of both traditional and electronic portfolios for the workforce or college. Software applications include the Adobe Creative Suite: Photoshop, Illustrator, InDesign, Lightroom, After Effects, and Fireworks. This program provides an excellent foundation of technical knowledge for a post-secondary art college and/or direct employment.



AVAILABLE INDUSTRY CERTIFICATIONS

Adobe Certified Associate Illustrator
 Adobe Certified Associate InDesign
 Adobe Certified Associate Photoshop

COLLEGE ADVANCED CREDITS

Art Institute of Pittsburgh
 Bucks County Community College
 Harrisburg University of Science & Technology
 Hussian School of Art
 Pennsylvania College of Technology

PROGRAM RECOMMENDATIONS

Basic computer skills
 Color perception
 Creative/artistic ability
 Knowledge of geometric concepts and spatial relationships
 Mathematics fundamentals, including linear measurements
 Read and interpret technical material at grade level

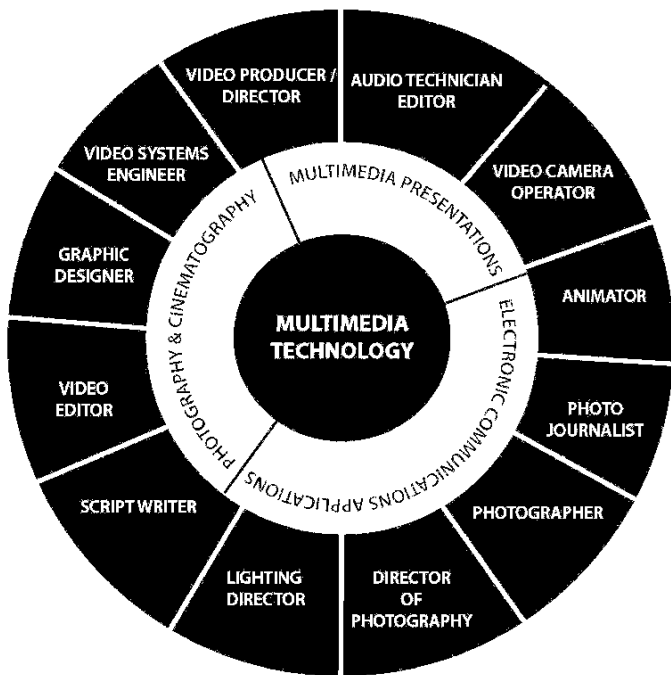
PROGRAM REQUIREMENTS/ESTIMATED COSTS

Art supply kit (approximately \$20)
 Portfolio (approximately \$40)

Arts, A/V Technology & Communications Career Cluster
MULTIMEDIA TECHNOLOGY

Instructor: James Davey
 CIP Code: 10.9999

This Apple Distinguished program introduces students to the art and science of multimedia technology. Through a mix of classroom instruction and hands-on experience, students will be well prepared for success in today's rapidly growing communication fields. They gain a working knowledge of hardware, software, and equipment necessary for delivering effective communication for business, education, and entertainment. Through instruction students will develop competency in photography, cinematography, concept design, graphic design, television production, streaming video and audio production, as well as electronic computer imaging, motion graphics, and animation using Apple computers. In addition, curriculum is implemented using iOS devices such as the iPad, iPod touch and PhoneGap. A variety of software applications are taught including: Final Cut Pro, Adobe Premiere Pro, Soundtrack Pro and Audition, Edge Animate, iTunes, iBooks Author, GarageBand, Pages, Numbers, Keynote, Photoshop, Illustrator, After Effects, and Pro Tools. Using state-of-the-art digital technology, students apply their knowledge and skills to create professional media for broadcast, corporate communications, web-based content and entertainment. Students will also receive instruction in internet technology, social media and the development of multi-touch textbooks. This course provides comprehensive hands-on experience with the internet through instruction in website development, project management, budgeting, and social networking. This program will enhance computer literacy, build communication skills and yield work samples for an impressive portfolio in preparation for college and employment.



AVAILABLE INDUSTRY CERTIFICATIONS

Adobe Certified Associate – Visual Communication
 Apple Certified Pro – Final Cut Pro

COLLEGE ADVANCED CREDITS

Art Institute of Pittsburgh
 Bucks County Community College
 Pennsylvania College of Technology

PROGRAM RECOMMENDATIONS

Ability to work independently
 Basic computer skills
 Collaborative/group work
 Creative/artistic ability
 Effective written and oral communication skills
 Manual dexterity
 Mathematics fundamentals
 Physical stamina
 Read and interpret technical material at grade level
 Strong depth and color perception

PROGRAM REQUIREMENTS/ESTIMATED COSTS

Appropriate uniform attire (approximately \$30)
 Computer supplies and educational materials
 (approximately \$150)

DENTAL OCCUPATIONS

Instructor: Lisa Viviano

CIP Code: 51.0601

This program will prepare students to function as an integral member of a dental health team by developing the skills necessary for an entry-level position as a Dental Assistant, Orthodontic Assistant, Clinical Assistant, Dental Laboratory Technician, or Dental Receptionist. The core curriculum will include instruction in dental terminology, dental radiology, infection control, oral pathology, chairside dental assisting, anatomy and physiology, nutrition, and OSHA regulations. Dental Science instruction will include content in dental materials, dental radiology, oral anatomy and pathology, and therapeutics. Clinical Science instruction will emphasize principles of office management, chairside assisting, sterilization procedures, dental emergencies, and legal and ethical aspects of dental practice. Clinical education is also an integral part of the program, designed to perfect students' competence in performing dental assisting functions. Proficiency in job-related skills is obtained through lecture and hands-on experience in the lab or clinical setting. Students will also gain practical experience through the Middle Bucks Dental Clinic, which allows students to work alongside a dentist as dental services are provided to members of the community. This program provides an excellent foundation of technical knowledge for college and/or direct employment.

AVAILABLE INDUSTRY CERTIFICATIONS

Basic Life Support for Healthcare Providers
DANB Infection Control
DANB National Entry Level Dental Assistant
DANB Radiation Health and Safety
OSHA Career Safe Healthcare Provider

COLLEGE ADVANCED CREDITS

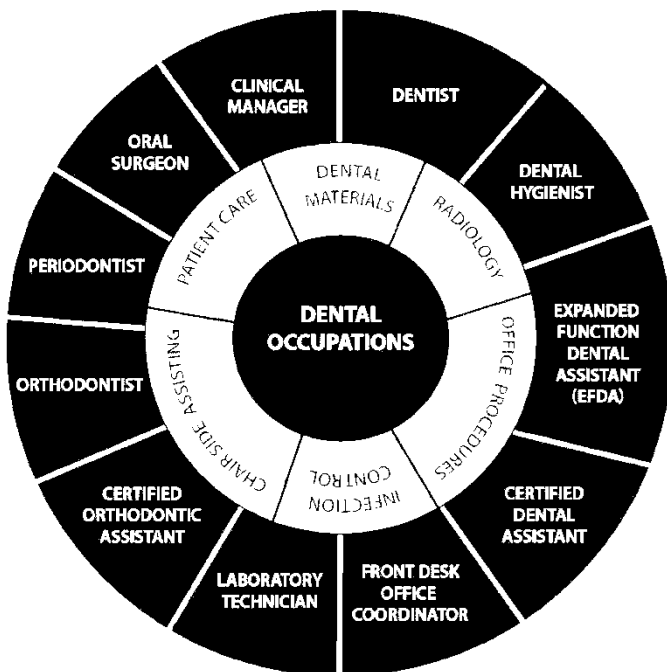
Bucks County Community College
Pennsylvania College of Technology

PROGRAM RECOMMENDATIONS

Effective written and oral communication skills
Finger dexterity
Hand-eye coordination
Mathematics fundamentals
Near vision
Read and interpret technical material at grade level

PROGRAM REQUIREMENTS/ESTIMATED COSTS

Activity fees (approximately \$25)
Appropriate uniform attire (approximately \$75)
DANB RHS Exam Fees \$225 (third year in the program)
Physical examination, including Hepatitis B and Tuberculin Skin Test (at student's expense)
Workbooks (approximately \$75)

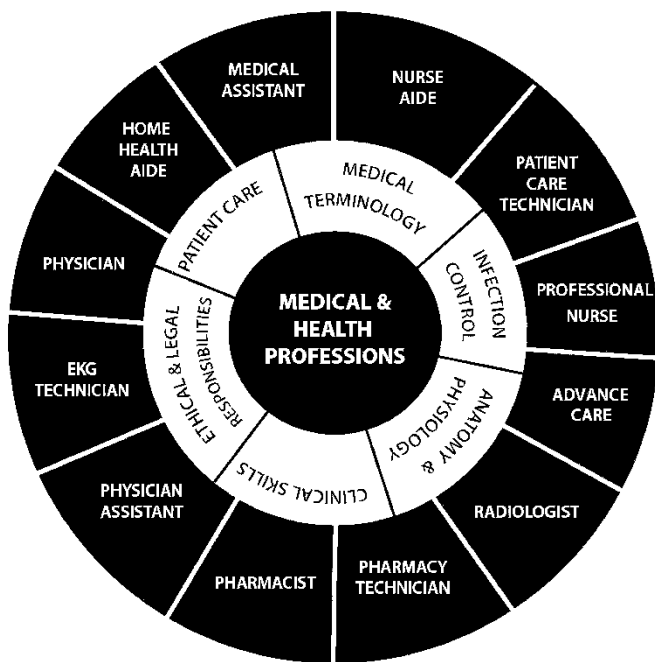


MEDICAL & HEALTH PROFESSIONS

Instructors: Sherry Appleton and Lynda Moyer

CIP Code: 51.0899

The Medical & Health Professions program is designed to prepare students for careers in the medical and allied health fields. Students will be exposed to various healthcare professions and settings, which will allow them to make a more informed decision about their future education and career. The core curriculum includes: introduction to healthcare, professionalism, infection control, anatomy and physiology, medical terminology, communication, personal and environmental safety, emergency and disaster preparedness, ethical and legal responsibilities, nutrition, human growth and development. Additional instruction in clinical skills includes: moving, lifting, and positioning of patients, vital signs, standard precautions, and patient care. Students are provided with both clinical and shadowing experiences in area hospitals, including Abington Memorial Hospital, and long-term care facilities, including Neshaminy Manor. Leadership skills and opportunities are encouraged through active involvement in Future Health Professionals (HOSA), our state and nationally recognized student organization. This program provides an excellent foundation of technical knowledge for college and/or direct employment.



AVAILABLE INDUSTRY CERTIFICATIONS

Basic Life Support for Healthcare Providers
ECG/EKG Technician
Patient Care Technician
Nurse Aide Registry
OSHA 10 Hour Safety

COLLEGE ADVANCED CREDITS

Bucks County Community College
Harcum College
Pennsylvania College of Technology

PROGRAM RECOMMENDATIONS

Effective written and oral communication skills
Finger dexterity
Hand-eye coordination
Laboratory science
Mathematics fundamentals
Near vision
Read and interpret technical material at grade level

PROGRAM REQUIREMENTS/ESTIMATED COSTS

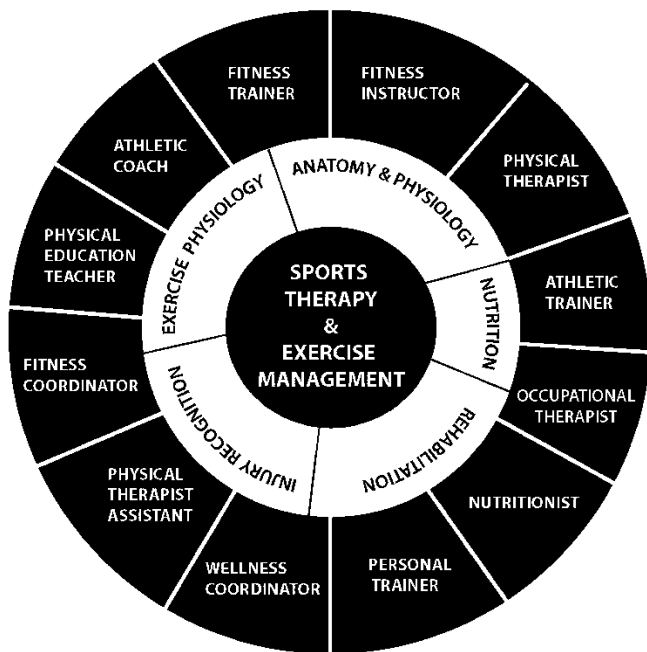
Activity fees (approximately \$60)
Appropriate uniform attire (approximately \$80)
Annual clearances, including PA Criminal Record Check and FBI Criminal Background Check (approximately \$30)
Physical examination, including Hepatitis B, Tuberculin Skin Test, and Flu vaccine (at student's expense)
Workbooks (approximately \$120)

SPORTS THERAPY & EXERCISE MANAGEMENT

Instructor: Sean Castineira

CIP Code: 51.2604

The Sports Therapy & Exercise Management program is designed to prepare students for a number of technical fields related to kinesiology. Instruction includes theory and applications related to strength training and high intensity training, weight management, nutrition, resistance training, exercise programming, exercise physiology, mental health and wellness, anatomy and physiology, pathophysiology, athletic training, injury recognition and management, rehabilitation and restorative care, and medical terminology. Students will learn to design safe and effective exercise prescriptions, conduct individual exercise programs, and fitness testing. Students will be prepared for employment in a wide variety of settings that include fitness clubs, hospitals, corporate wellness programs, strength and conditioning, and clinical rehabilitation programs. In addition, the program serves as a strong foundation for students wishing to pursue advanced degrees in the field of exercise science or enter professional disciplines such as physical or occupational therapy.



AVAILABLE INDUSTRY CERTIFICATIONS

American Heart Association Basic Life Support CPR and AED

American Red Cross First Aid

Personal Fitness Trainer

COLLEGE ADVANCED CREDITS

Bucks County Community College

PROGRAM RECOMMENDATIONS

Laboratory science

Mathematics fundamentals

Read and interpret technical material at grade level

PROGRAM REQUIREMENTS/ESTIMATED COSTS

Activity fees (approximately \$25)

Annual clearances, including PA Child Abuse

History Clearance, PA Criminal Record Check, and FBI Criminal Background Check (approximately \$50)

Appropriate uniform attire (approximately \$50)

Physical examination, including Hepatitis B and

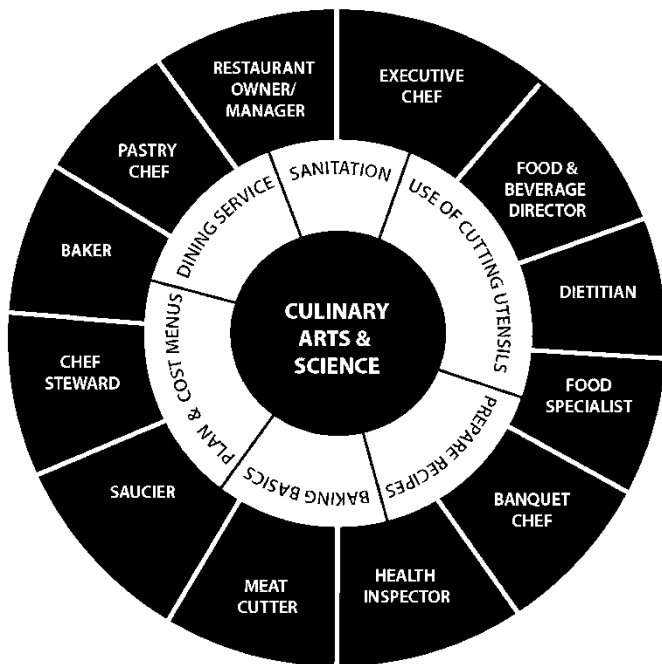
Tuberculin Skin Test (at student's expense)

Workbooks (approximately \$30)

Hospitality & Tourism Career Cluster
CULINARY ARTS & SCIENCE

Instructors: Mark Gage and Michael McCombe
 CIP Code: 12.0508

This American Culinary Federation (ACF) accredited secondary education program prepares students for employment in the hospitality industry, the largest industry in America today. Instruction includes theory and applications related to: food preparation, food management, food science, menu and banquet planning, food and beverage purchasing, quality control, cost analysis, commercial baking and pastry, catering, chef preparation, institutional foods, meat cutting, cooking methods, nutrition, dining room services, safety, and sanitation. Students learn the safe and proper use of hand and mechanical kitchen appliances, stoves, and ovens related to the industry. Practical experience is a major part of the course through the operation and management of a complete restaurant and catered banquet affairs. Hands-on instruction includes food preparation techniques required in a variety of food service establishments. Upon completion of the program, students will be prepared for entry-level positions in the food service industry or advanced study at a culinary institute or college.



AVAILABLE INDUSTRY CERTIFICATIONS

ACF Certified Junior Culinarian
 ACF Secondary Culinary Graduate
 ServSafe/Manager Food Safety

COLLEGE ADVANCED CREDITS

Bucks County Community College
 Culinary Institute of America
 Delaware Valley University
 Johnson & Wales University
 Pennsylvania College of Technology
 The Restaurant School at Walnut Hill College

PROGRAM RECOMMENDATIONS

Basic computer skills
 Effective written and oral communication skills
 Good interpersonal skills
 Mathematics fundamentals
 Read and interpret technical material at grade level

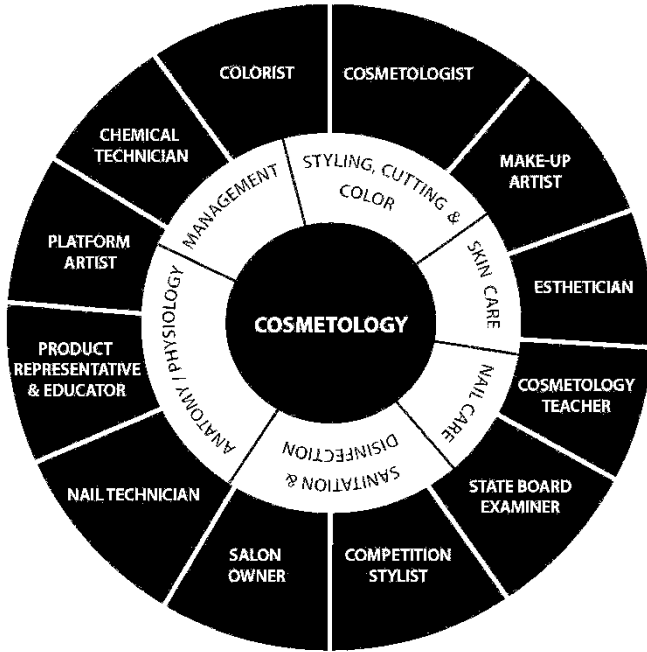
PROGRAM REQUIREMENTS/ESTIMATED COSTS

Appropriate uniform attire (approximately \$200)
 Industry certification testing fees
 (approximately \$60 per test)
 Workbook (approximately \$20)

Human Services Career Cluster
COSMETOLOGY

Instructors: Maura Duncan and Jo Ann McLaughlin
 CIP Code: 12.0401

This program is designed to be in compliance with the rules, regulations and state-mandated curriculum of the Pennsylvania State Board of Cosmetology. Instruction is provided in a variety of beauty treatments, including the care and beautification of the hair, skin, and nails. Included in this curriculum is: training in shampooing, hair styling, haircutting, hair coloring and bleaching, chemical texturizing, facials, manicures and pedicures, nail technology, bacteriology, chemistry, electricity, anatomy and physiology, hygiene, sanitation, salon management, and communication skills. Students completing all of the requirements, including the 1,250 hours of instruction, are eligible to receive selected PA State Board of Cosmetology Licenses upon successful examination. Upon issuance of a professional license by the PA State Board of Cosmetology, students are qualified for employment in a full service salon or advanced licensing and teaching. Other options include collegiate study in business or marketing, providing employment opportunities as manufacturers' representatives and/or small business owners.



AVAILABLE INDUSTRY CERTIFICATIONS

PA State Board of Cosmetology License

COLLEGE ADVANCED CREDITS

Bucks County Community College
 Pennsylvania College of Technology

PROGRAM RECOMMENDATIONS

- Ability to adhere to strict safety regulations
- Color perception and accurate vision
- Effective communication skills
- Fine motor skills
- Good interpersonal skills
- Good organizational skills
- Mathematics fundamentals, including liquid measurements
- Read and interpret technical material at grade level

PROGRAM REQUIREMENTS/ESTIMATED COSTS

- Cosmetology kits (approximately \$630)
- Industry certification testing fees (approximately \$93)
- Must serve as both an operator and a peer model for all reversible services
- Social Security # or Federal # (required to record hours)
- PA Criminal Record Check

Human Services Career Cluster

EARLY CHILDHOOD CARE & EDUCATION

Instructor: Lise Rich
CIP Code: 19.0708

This program prepares students for a variety of careers working with children, and provides both theory and practical experiences. Students assist in the operation of a laboratory childcare center at Middle Bucks Institute of Technology, Li'l Bucks Partners in Learning, which is licensed as a Pennsylvania-approved child care center and a Keystone Star 3 center. Students age 16 or older are involved in supervising play, learning skills in behavior management, maintaining a safe and healthy environment, developing an understanding of policies and procedures regarding child care services, and developing lesson plans, observation skills, and professional skills. The program is aligned to the Child Development Associate (CDA) requirements as well as Pennsylvania's Program of Studies for Child Care. In the third year of the program, students complete clinical experiences working with infants, toddlers, preschoolers, school-aged children, or special needs children. This program provides an excellent foundation of technical knowledge for college and/or direct employment.



AVAILABLE INDUSTRY CERTIFICATIONS

Assistant Group Supervisor
CDA Certification
Penn State Extension Better Kid Care New Staff 15 Hour Orientation
PA Keys CPR Training
PA Keys Fire Safety Training
PA Keys Pediatric First Aid Training

COLLEGE ADVANCED CREDITS

Bucks County Community College
Pennsylvania College of Technology

PROGRAM RECOMMENDATIONS

Effective communication skills
Emotional stability
Mathematics fundamentals
Physical stamina
Read and interpret educational material at grade level

PROGRAM REQUIREMENTS/ESTIMATED COSTS

Age verification
Annual clearances, including PA Child Abuse History Clearance and PA Criminal Record Check (free for volunteers), and FBI Criminal Background Check (approximately \$25)
Physical examination, including Tuberculin Skin Test (at student's expense)
Two written letters of references

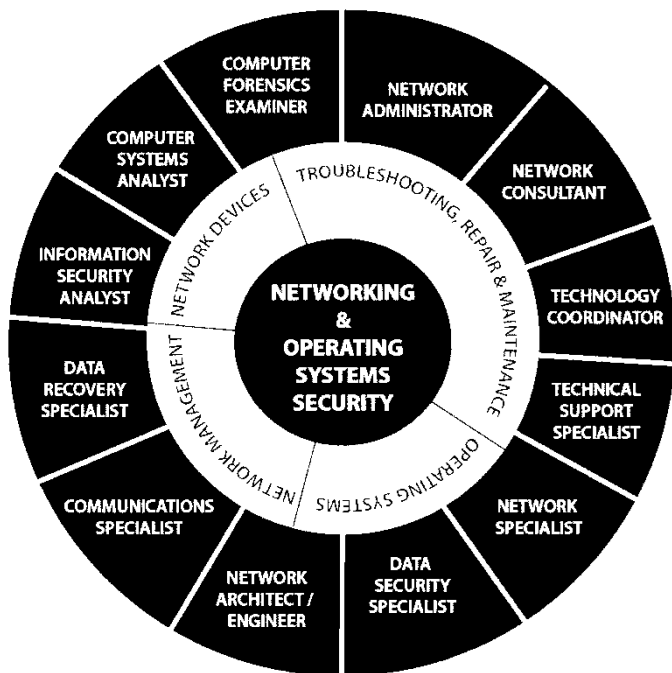
Information Technology Career Cluster

NETWORKING & OPERATING SYSTEMS SECURITY

Instructor: Thomas Omerza

CIP Code: 11.0901

This CompTIA authorized Academy offers students the opportunity to study a variety of topics, including Microsoft Windows Operating Systems, in which students will obtain the knowledge and skills necessary to install, configure, administer, and support the primary services of Microsoft Windows Server operating systems; CompTIA A+ certification, an international, vendor-neutral certification which validates the latest skills needed by today's computer support professionals; CompTIA Network+ certification, which allows students to learn the technology and theory behind local area network (LAN) through design and implementation; and CompTIA Security+ certification, which introduces students to industry-wide topics including communication security, infrastructure security, cryptography, access control, authentication, external attacks, and operations and organizational security. Students will further be introduced to virtual computing and its uses throughout the computer industry, as well as computer forensics, a branch of forensic science pertaining to legal evidence found in computers and digital media storage. In addition, students will learn about network cabling technology, including: copper cabling systems, connectors, grounding, bonding, electrical protection, termination functions, and safety. Lastly, students are introduced to the digital environment. This program provides an excellent foundation of technical knowledge for college and/or direct employment.



AVAILABLE INDUSTRY CERTIFICATIONS

Certified Data Recovery Professional
CompTIA A+, Network+, and Security+
Microsoft Certified Solutions Associate for Windows 7, 8, 8.1, and 10
Microsoft Certified Solutions Associate for Windows Server 2008, 2012 and 2016
Office 365

COLLEGE ADVANCED CREDITS

Bucks County Community College
Pennsylvania College of Technology
Thaddeus Stevens College of Technology

PROGRAM RECOMMENDATIONS

Algebra 1
Basic computer skills
Read and interpret technical material at grade level

PROGRAM REQUIREMENTS/ESTIMATED COSTS

Appropriate uniform attire (approximately \$25)
Industry certification testing fees (approximately \$130 per test)
Textbooks (approximately \$195 to begin student's professional library)

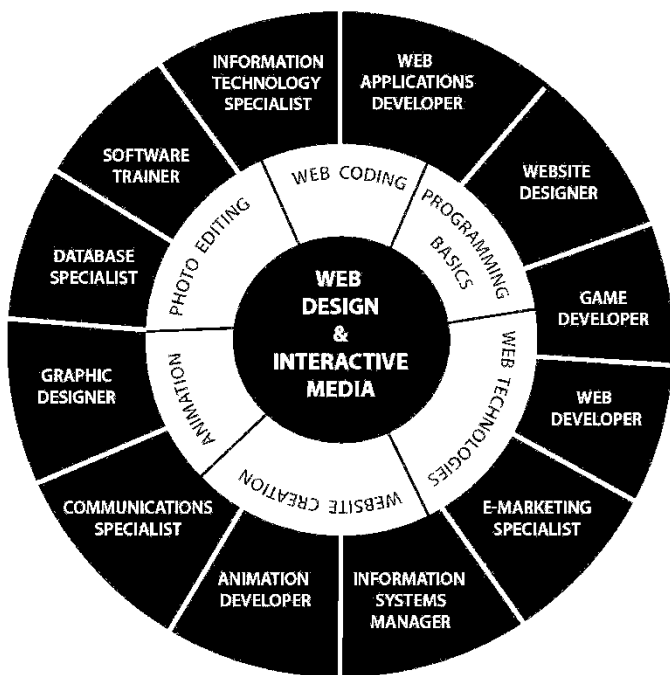
Information Technology Career Cluster

WEB DESIGN & INTERACTIVE MEDIA

Instructor: Steven Guinan

CIP Code: 11.0801

Students enrolled in this program will participate in an exciting program of study exploring computers in internet-based technologies. This class is for students who want to learn about the current technology in web applications. Students will learn advanced skills in photo editing using Adobe Photoshop, animation using Adobe Flash, multimedia using Adobe Premier, and web design editing using Adobe Dreamweaver. Adobe is the leading provider of state-of-the-art industry standard software. Students walk away from this class with an extensive portfolio of digital imagery, web imagery, and multimedia animations. In addition, students will have the opportunity to learn coding techniques and development using HTML and CSS. HTML is the language of the web and the foundation for building websites. Students also study programming languages and scripting languages to create dynamic web pages. Throughout the course, students create and design websites for a variety of clients in the community. Additional instruction includes: internet theory, web page standards and policies, elements of web page design, user interfaces, vector tools, special effects, interactive and multimedia components, search engines, navigation, morphing, gaming, e-commerce tools, and emerging web technology. This program provides an excellent foundation of technical knowledge for college and/or direct employment.



AVAILABLE INDUSTRY CERTIFICATIONS

Adobe Certified Associate in Dreamweaver,
Photoshop, Flash, and Illustrator
Microsoft Office Specialist in Word, PowerPoint,
Access and Excel
World Organization of Webmasters

COLLEGE ADVANCED CREDITS

Art Institute of Pittsburgh
Bucks County Community College
Pennsylvania College of Technology

PROGRAM RECOMMENDATIONS

Algebra 1
Basic computer skills
Read and interpret technical material at grade level

PROGRAM REQUIREMENTS/ESTIMATED COSTS

Industry certification testing fees (approximately \$60 per test)
Textbooks (approximately \$150 to begin student's professional library)

PUBLIC SAFETY

Instructor: John Fala

CIP Code: 43.9999

The Public Safety program is designed to prepare students for careers in four broad areas of public safety; law enforcement; fire protection, emergency health services, and security and loss prevention. Students will study and perform skills in the following topics: Safety, Criminal Justice System, Law Enforcement, Private and Homeland Security, Corrections, Communications, Incident Command, Firefighting, Emergency Medical Services, Hazardous Materials and Defensive Techniques. Through report writing and information retrieval, students will apply and refine their communication and computer skills while working on their personal development skills. The curriculum will include discussion and case studies on professionalism, ethics, cultural diversity, and conflict resolution. Classroom and laboratory experiences will be held at both MBIT and the Bucks County Public Safety Training Center. This program provides an excellent foundation from which to pursue a two- or four-year college degree and ultimately a career in public safety.



AVAILABLE INDUSTRY CERTIFICATIONS

American Heart Association Heartsaver CPR, AED and First Aid

FEMA Emergency Management Institute - National Incident Management System Level 100, 200, 700, and 800

Emergency Medical Technician

Firefighter I

MOAB - Management of Aggressive Behavior

OCAT – Pepper Spray

PPBT - Baton Tactics

PATH - Practical and Tactical Handcuffing

COLLEGE ADVANCED CREDITS

Bucks County Community College

Pennsylvania College of Technology

PROGRAM RECOMMENDATIONS

Algebra I

Basic computer skills

Effective written and oral communication skills

Emotional stability

Physical and mental fitness

Read and interpret technical material at grade level

PROGRAM REQUIREMENTS/ESTIMATED

COSTS

Appropriate uniform attire (approximately \$170)

PA Criminal Record Check (approximately \$10)

Physical exam (at student's expense)

Manufacturing Career Cluster
WELDING TECHNOLOGY

Instructor: Paul Carney

CIP Code: 48.0508

This instructional program prepares students in oxy/fuel welding, cutting, and brazing, shielded metal arc, gas metal arc, gas tungsten arc, flux core, carbon arc, plasma cutting using manual and Computerized Numerical Control (CNC) programming welding processes. Students are trained in the different types, sizes and uses of electrodes and welding rods; welding symbols, and the use of measuring instruments, hand tools, and portable grinders. Theory in metallurgy, electrical principles, blueprint reading, layout and design, and CNC programming on fabrication equipment is provided. Practical problems in math, preparation of material lists, cost estimating and methods of quality assurance are also covered. Quality control inspections include the use of destructive and non-destructive testing equipment. The welding standards and procedures established by the American Welding Society (AWS), American Society of Mechanical Engineers (ASME), the American Bureau of Ships (ABS), the American Petroleum Institute (API), and safety practices outlined in the American National Standards Institute (ANSI Z49.1) code books will be practiced. Students may pursue advanced studies at the post-secondary level in fields including: welding engineering, metallurgy, structural design, energy technology, underwater welding, quality control and inspection, as well as apprenticeships. This program provides an excellent foundation of technical knowledge for college and/or direct employment.



AVAILABLE INDUSTRY CERTIFICATIONS

- ASME/AWS Code
- AWS Entry Level Welder
- OSHA 10 Hour Safety

COLLEGE ADVANCED CREDITS

- Bucks County Community College
- Pennsylvania College of Technology
- Triangle Tech

PROGRAM RECOMMENDATIONS

- Ability to adhere to strict safety regulations
- Fine motor skills
- Mathematics fundamentals
- Physical stamina
- Read and interpret technical material at grade level

PROGRAM REQUIREMENTS/ESTIMATED COSTS

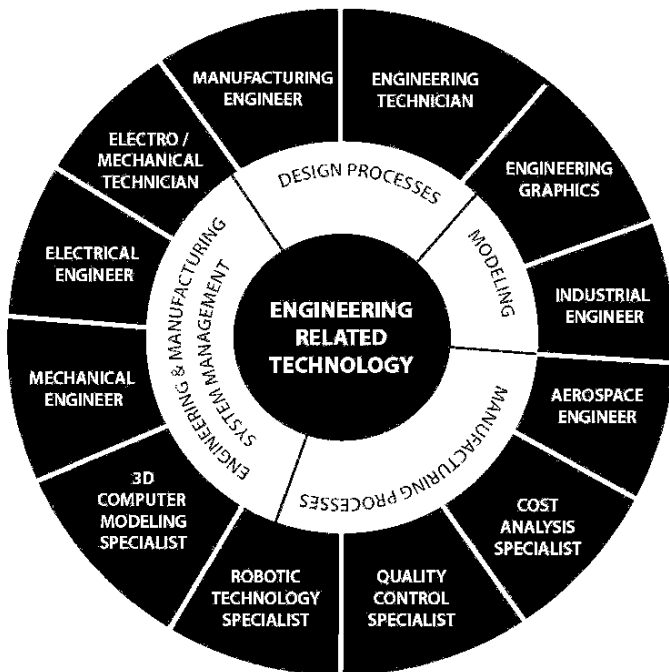
- Appropriate uniform attire (approximately \$40-\$70)
- Industry certification testing fees (varied)
- OSHA 10 Hour Safety (approximately \$25)
- Textbook and lab manual (approximately \$25)

Science, Technology, Engineering & Mathematics Career Cluster
ENGINEERING RELATED TECHNOLOGY

Instructor: John Polcino

CIP Code: 15.9999

This program provides the college-bound student with pre-professional experiences in the field of engineering and related technologies. Curriculum is enhanced through the use of state-of-the art technology and Amatrol Hands-On Learning Systems. The Engineering Related Technology program is a rigorous sequence of courses that allows students to develop skills in engineering and engineering technology. Exposure to principles of engineering and introduction to engineering design will help students prepare to enter a two- or four-year college or technical school. The Amatrol Systems help the student understand the practical side of engineering related technology by utilizing hands-on skills. This project-based curriculum challenges students to use mathematical, scientific, and technological principles to solve real world problems. The broader Engineering Related Technology program curriculum consists of a series of courses that expose students to the various disciplines of engineering including: civil engineering, electrical and electronic engineering, design engineering, industrial, manufacturing, and mechanical engineering, chemical engineering, aerospace engineering, and computer and network engineering. Students will study electro-mechanical systems, robotics, electrical and electronic theory, thermal heat, and fluid and pneumatic power. They will learn to use a variety of engineering tools including: software applications for design, statistical and data analysis, project management, presentation, and reporting. In addition, students will use laboratory equipment for testing and measurement. Lastly, students will learn the problem-solving process, develop critical thinking skills, and work in teams.



AVAILABLE INDUSTRY CERTIFICATIONS

OSHA 10 Hour Safety
 SolidWorks

COLLEGE ADVANCED CREDITS

Bucks County Community College
 Pennsylvania College of Technology

PROGRAM RECOMMENDATIONS

Algebra 1
 Laboratory science
 Read and interpret technical material at grade level

PROGRAM REQUIREMENTS/ESTIMATED COSTS

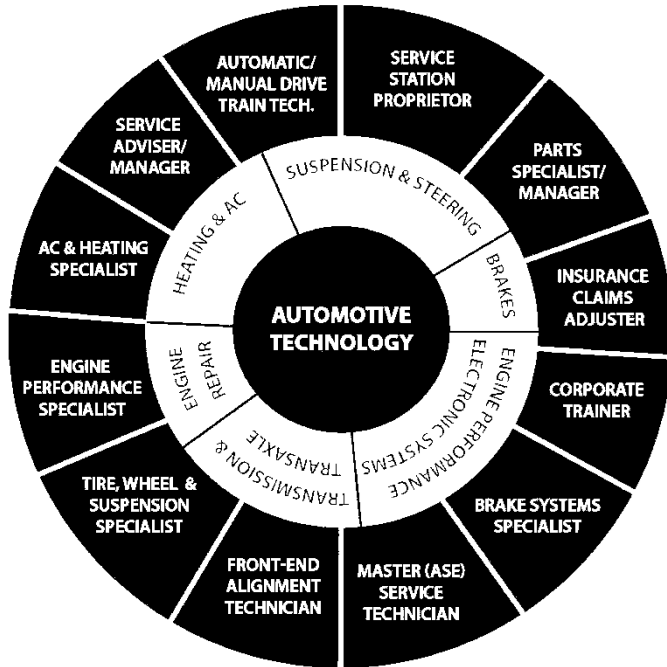
OSHA 10 Hour Safety (approximately \$25)
 Lab coat (approximately \$40)
 Lab supplies (approximately \$75)
 Workbooks (approximately \$125)

Transportation, Distribution & Logistics Career Cluster
AUTOMOTIVE TECHNOLOGY

Instructors: Paul Ciarlone and Robert Schwarz

CIP Code: 47.0604

This nationally recognized Automotive Service Excellence/National Automotive Training Education Foundation (ASE/NATEF) accredited instructional program prepares students to engage in the diagnosis, servicing, and maintenance of all types of automobiles. The Automotive Technology program has also been recognized by the Motor Vehicle Manufacturers Association (MVMA) Advisory Council and the Association for Career and Technical Education (ACTE). Instruction is provided in the diagnosis, repair and maintenance of engines, automatic transmissions/transaxles, manual drive trains and axles, suspension and steering systems, brake systems, electrical systems, heating and air conditioning systems, and engine performance. Graduates of this program will be qualified to enter the automotive field as an entry-level service technician in new car dealerships or related automotive businesses. The Automotive Technology program also provides an excellent foundation from which to pursue a two or four year college degree.



AVAILABLE INDUSTRY CERTIFICATIONS

- AC Delco Battery Starting and Charging System
- AC Delco Electrical State 1 & 2
- ASE Student Certificates
- PA Certified Emissions Inspector
- PA Certified Safety Inspector, Category I
- S/P2 Certificates for Safety and Pollution
- Section 609 Certification for Refrigerant Recycling and Recovery
- Valvoline Motor Oil Certificate

COLLEGE ADVANCED CREDITS

- Bucks County Community College
- Northampton Community College
- Pennsylvania College of Technology
- Universal Technical Institute

PROGRAM RECOMMENDATIONS

- Ability to work in cramped spaces and awkward positions
- Effective analytical and critical thinking skills
- Aptitude for mechanical and scientific theory
- Effective oral comprehension
- Hand-eye coordination
- Mathematics fundamentals including: arithmetic, algebra, and geometry
- Read and interpret technical material at grade level
- Understanding of electronics and computers

PROGRAM REQUIREMENTS/ESTIMATED COSTS

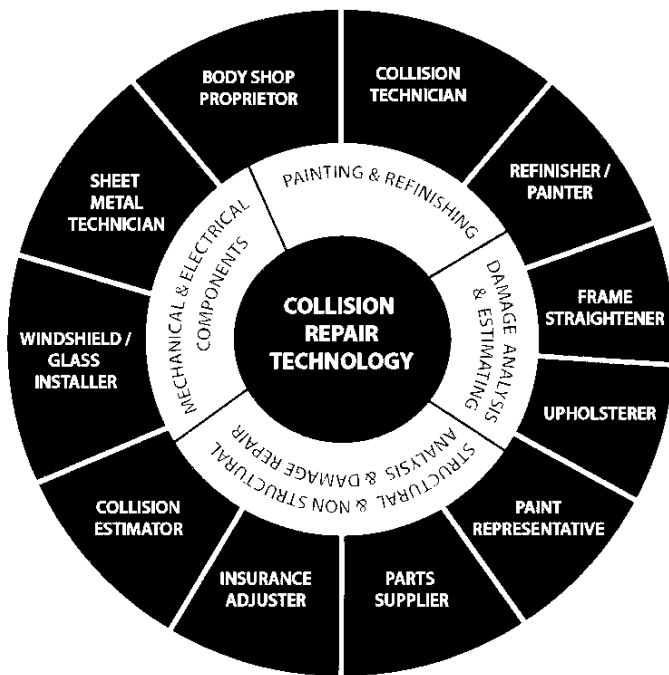
- Appropriate uniform attire (approximately \$100)
- Textbooks and lab manuals (approximately \$25)
- Industry certification testing fees (approximately \$120)

Transportation, Distribution & Logistics Career Cluster
COLLISION REPAIR TECHNOLOGY

Instructor: Arnold Jazlovietski, Jr.

CIP Code: 47.0603

This nationally recognized Automotive Service Excellence/National Automotive Training Education Foundation (ASE/NATEF) accredited instructional program prepares students to perform: structural analysis and damage repair, non-structural analysis and damage repair, mechanical and electrical components, plastics and adhesives, and painting and refinishing. Furthermore, this program utilizes the industry standard I-CAR curriculum. The Collision Repair Technology program has also been recognized by the Motor Vehicle Manufacturers Association (MVMA) Advisory Council and the Association for Career and Technical Education (ACTE). The program prepares students to perform various duties from repairing small dents to rebuilding the bodies of wrecked or damaged vehicles. Students learn industry relevant skills including: examining damaged vehicles and estimating costs of repairs, removal, repair, and replacement of body panels, accessories, electrical and hydraulic devices, grills, trim, automotive glass, and unibody straightening. Refinishing processes and spray painting techniques are taught in a controlled-atmosphere downdraft spray booth according to industry standards. Waterborne paint technology is taught as part of the industry's efforts to be more environmentally friendly. Students learn the proper use of power and hand tools, welding processes and techniques, and safety. Students will be prepared to enter the auto body and collision industry as entry-level technicians. Students will also have the technical skills to pursue an associate or baccalaureate degree in collision related fields, including automotive restoration technology.



AVAILABLE INDUSTRY CERTIFICATIONS

- AC Delco Battery Starting and Charging System
- AC Delco Electrical State 1 & 2
- ASE Student Certificates
- S/P2 Certificates for Safety and Pollution Prevention
- Section 609 Certification for Refrigerant Recycling and Recovery
- Valvoline Motor Oil Certificate

COLLEGE ADVANCED CREDITS

- Bucks County Community College
- Pennsylvania College of Technology
- Universal Technical Institute

PROGRAM RECOMMENDATIONS

- Adhere to strict safety regulations
- Color and size perception
- Effective organizational skills
- Hand-eye coordination
- Mathematics fundamentals, including linear and liquid measurements
- Physical stamina
- Read and interpret technical material at grade level

PROGRAM REQUIREMENTS/ESTIMATED COSTS

- Appropriate uniform attire and equipment (approximately \$150)
- Industry certification testing fees (approximately \$50)

RELATED PROGRAMS AND SERVICES

STUDENT SUPPORT SERVICES

The following additional services are available to current students and/or prospective students:

- Academic skill support
- Career guidance and counseling
- Career assessment and development
- Equity services for non-traditional students
- Student assessment/aptitude testing
- Special support and placement
- Health services

Instructional support services are provided based on each student's individual needs to ensure their success. These services include remedial assistance in math, reading, writing, technical skills, job seeking and retention skills, communication and interpersonal skills, and testing.

WORK-BASED EDUCATION

As part of their chosen educational program, students may extend their educational training to an actual work site. In cooperation with local business and industry, students may participate in apprenticeship, co-op, internship, externship, clinical and/or shadowing experiences. All company sites selected for work-based training are evaluated on their ability to offer a relevant, safe, and supervised experience. Formal training agreements and plans are required of each work site to create the structure necessary for a successful experience. Work-based education reinforces and supplements the technical education received at Middle Bucks Institute of Technology and is scheduled based on student need and readiness.

Occasionally, an opportunity may arise for registered student apprenticeships through the Federal Bureau of Apprenticeship and Training, and the Pennsylvania Apprenticeship and Training Council in several of our trade areas. These registered programs are sponsored jointly by employers and labor organizations. Middle Bucks Institute of Technology, through our work-based education department, is helping to establish registered apprenticeships and provide these sponsors with qualified students. These apprenticeship experiences provide our students with a head start toward their journeyman certification.

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

Career and Technical Student Organizations (CTSOs) are an integral part of the educational program at Middle Bucks Institute of Technology. These co-curricular experiences provide students with opportunities to develop leadership skills and to participate in community service activities. Students are also able to compete locally, regionally, statewide, and nationally in skill and leadership competitions in their career specialty. All students are expected to participate in SkillsUSA and one of the following organizations if relevant to their program of study: Health Occupations Students of America (HOSA), Future Farmers of America (FFA), or the Pennsylvania Builders Association (PBA). There is a \$25 activity fee assessed to all students attending MBIT, which is applied to their state and national dues.

PORTFOLIOS

Portfolio development is an instructional strategy used to highlight students' work in all of the career and technical programs at MBIT. All students will develop a portfolio which represents a collection of work that can be presented to a prospective employer or college/university representative.

INDUSTRY CERTIFICATIONS

The high performance workplace demands a skilled, competent workforce. In order to provide a standard of performance, many industries have developed and offer examinations or certification programs leading to a nationally recognized credential. At MBIT, opportunities are available for students to complete recognized industry credential or certification programs. All twenty-two career pathways lead to the earning of at least one industry credential. The Microsoft Office Specialist (MOS), Automotive Service Excellence (ASE), Emergency Medical Technician (EMT), and the Pennsylvania Department of Health Nurse Aide (NA) certifications are just some of the credentials and certifications that students can achieve while enrolled at MBIT. Please refer to the "Available Industry Certifications" section under each career pathway for a complete listing. Many of these certifications offer the student an advanced position in a variety of higher paying jobs in our community.

JOB COUNSELING SERVICES

Based on the student's career goal, Middle Bucks Institute of Technology provides job counseling services to meet individual needs and interests. Placement rates for MBIT graduates have been excellent and have historically achieved 100% for those students who desire and actively pursue job or college placement. Middle Bucks Institute of Technology is committed to the placement of all successful students. In addition, placement services are available to all MBIT alumni.

ADULT AND INDUSTRY EDUCATION

Adult day programs are offered to adults interested in studying for a new career. Adult students are accepted into all daytime programs as space permits. Adult evening classes are offered in the fall and spring semester, allowing adult students to learn new skills or upgrade current skills for employment. Online courses are available to adult students through our web-based partner ED2GO, which is accessible from our school website. Custom industry training courses for employees within the community can be designed to meet specific training needs and can be delivered at a company site or at MBIT. Finally, Middle Bucks Institute of Technology is now a U.S. Department of Veterans Affairs-approved training center. Veterans eligible for education benefits can now use those benefits to enroll in any of 11 approved adult education programs offered by the school.

FACULTY AND STAFF PROFILES

SHERRY APPLETON

Teaching Assignment: Medical & Health Professions

B.S. in Nursing from Thomas Jefferson University; over twenty-five years of experience; specializing in infusion therapy with cancer treatment, gastroenterology and rheumatic disease; professional work experience includes employment at Cancer Treatment Centers of America and Thomas Jefferson University Hospital; possesses Professional Nursing licensure and Pennsylvania teaching certificate.

PAUL CARNEY

Teaching Assignment: Welding Technology

B.S. in Education, Temple University; 25 years of experience as CTE Welding Technology Instructor, over 40 years of occupational experience; Former President, Pennsylvania Association of Welding Educators (PAWE); American Welding Society (AWS) Silver Member; AWS Certified Welding Educator (CWE); AWS/API Certified Welding Inspector (CWI/API); American Petroleum Institute API 1104; AWS Certified D1.1 structural and ASME IX code welder, holds U.S. Defense Nuclear Certification for pipe and structural welding; Power Generation Service Technician on nuclear and fossil steam turbines; qualified as a quality circle leader and laser technician by General Electric Aerospace Division; President of Carnac Industrial Training and Consulting; past member of International Society of Welding Educators (ISWE) and member since 1980 of the American Welding Society, Lehigh and Philadelphia Chapters; serves as a Mentor Teacher; awarded 2016 Teacher of the Year for Career and Technical education by Pennsylvania Association for Career and Technical Education PA-(ACTE); possesses Pennsylvania teaching certificate and Cooperative Education certification.

SEAN CASTINEIRA

Teaching Assignment: Sports Therapy & Exercise Management

B.S. in Athletic Training, Alvernia University; two years professional physical therapy experience treating patients; two years athletic training experience as the Athletic Trainer at Downingtown West High School; interned with the Reading Royals professional hockey team of the ECHL; currently employed as the Athletic Trainer for Lacrosse Evolution and United Sports Training Center; certified in CPR/AED and Basic Life Support through the American Heart Association; board certified in athletic training; possesses Pennsylvania and Delaware Athletic Training license; possesses Pennsylvania teaching certificate.

PAUL CIARLONE

Teaching Assignment: Automotive Technology

Thirty plus years of occupational experience, including fifteen years as owner/operator of an automotive repair business and twenty years of experience as an instructor; degree from Automotive Training Center in Specialized Automotive Service Technology with a Machine Shop Major; degree from RETS Electronics in Electronic and Microprocessor Technology; ASE Certified Master Technician; ASE Certified L1 Advanced Engine Performance Specialist; certified Instructor for Pennsylvania Safety Inspection License, Enhanced Emissions Inspector Certification, Fundamental Inspection Repair System Training; certified with Mobile Air Conditioning Society (MACS) to perform air conditioning refrigerant recovery; Emission Diagnostician Graduate Education Training Program; Daimler Chrysler factory trained in all skill areas; Ford factory trained in Electrical/Electronic, Multiplexing, Suspension, ABS and Climate Control; National Train the Trainer for OBDII; possesses Pennsylvania teaching certificate.

FACULTY AND STAFF PROFILES

JAMES DAVEY

Teaching Assignment: Multimedia Technology

B.A. in Communications, Temple University; over thirty years of experience in live television, scripted and reality television, corporate communications, and marketing; professional certification in Adobe Premiere; small business owner; member of National Academy of Television Arts and Sciences; recipient of multiple EMMY, Telly, and Communicator awards; possesses Pennsylvania teaching certificate.

LAUREN DOHERTY

Assignment: School Counselor

M.Ed. in Secondary School Counseling, Kutztown University; BSW in Social Work, Temple University; member of the American School Counselor Association (ASCA) and the Pennsylvania School Counselor Association (PSCA); serves as a Mobile Therapist working to support children with multiple disabilities; possess Pennsylvania Secondary School Counselor certification.

DENISE DOHONEY

Assignment: Assistant Administrative Director

M.Ed. in Education, Temple University; B.S. in Education, Bloomsburg University; Principal's certification, Immaculata University; thirteen years educational administration experience; twenty-two years teaching experience; Adjunct Professor, Temple University; member of Pennsylvania Association of Career and Technical Administrators (PACTA), Association of Career and Technical Education (ACTE), and Pennsylvania Association of Elementary and Secondary School Principals (PAESSP); possesses Pennsylvania Elementary and Secondary Principal certification and Director of Career and Technical Education certification.

MAURA DUNCAN

Teaching Assignment: Cosmetology

Possesses State Board of Cosmetology Teacher certification; ten years teaching experience and three years as an Instructional Assistant; member of Association of Vocational Teachers Educating in Cosmetology; active licensed stylist; graduate of Middle Bucks Institute of Technology; possesses Pennsylvania teaching certificate.

ANGELA EGGE

Assignment: Special Needs Coordinator

M.Ed. in Education, East Stroudsburg University; B.S. in Biology, Old Dominion University; certification in Secondary Education and Special Education; pursuing Special Education Supervisory Certification at East Stroudsburg University; eighteen years teaching experience; three years administrative experience; member of the Bucks County Autism Support Coalition, PA Association of Career & Technical Education Special Populations and Council for Exceptional Children; PA Special Education Fellowship Leadership member; possesses OSHA 10 Hour Safety certification and Pennsylvania, Maryland, and Virginia teaching certificates.

FACULTY AND STAFF PROFILES

JOHN FALA

Teaching Assignment: Public Safety

M.S. in Public Administration, Pennsylvania State University; B.A. (magna cum laude) in Criminal Justice, Temple University; fifteen years of experience in the field of Criminal Justice; Adjunct faculty member at Bucks County Community College, 2003 Pennsylvania Career and Technical Education Teacher of the Year; certification as a Senior Instructor-Advanced with Protective Safety Systems; NFPA Fire Fighter, Pennsylvania Department of Health State Certified Emergency Medical Technician Instructor, Management of Aggressive Behavior (MOAB) Instructor; Practical and Tactical Handcuffing (PATH) Instructor; Expandable Baton Instructor; Oleoresin Capsicum Aerosol Training (OCAT); serve as Instructor to develop and conduct safety training for various government/private agencies on the international, state, and local levels; serves as a Mentor Teacher; possesses Pennsylvania teaching certificate.

SANDRA FITZPATRICK

Assignment: Special Needs Coordinator

M.Ed. (cum laude) in Special Education, Arcadia University; B.A. (summa cum laude) in Psychology, Gwynedd Mercy University; twenty-two years of experience in Career and Technical Education; member of Pennsylvania Association of Career and Technical Administrators (PACTA), Council for Exceptional Children, and Autism Speaks; possesses Pennsylvania K-12 Special Education certificate and OSHA 10 Hour Safety certification.

STACEY FLOOD

Assignment: Special Needs Coordinator

M.Ed. in Education, LaSalle University; B.S. Psychology, East Stroudsburg University; certification in Special Education K-12, LaSalle University; fourteen years of experience in Career and Technical Education; Certified QPR Suicide Prevention Gatekeeper Instructor; possesses OSHA 10 Hour Safety certification and Pennsylvania teaching certificate.

MARK GAGE

Teaching Assignment: Culinary Arts & Science

Graduate of the Culinary Institute of America, Hyde Park, New York; over thirty-five years occupational experience in the hospitality, food, and beverage industry, including positions as Executive Chef at country clubs, restaurants, hotels and catering establishments; Director of Food and Beverage for Club Corp of America International, Dallas, Texas; former Instructor at Delaware Valley Culinary Institute; member of American Culinary Federation (ACF); ACF Certified Executive Chef (CEC) and Certified Secondary Culinary Educator (CSCE); 2012 Recipient of the Liberty Museum Teacher as Hero Award, member of Delaware Valley Chefs Association and Phi Theta Kappa National Honor Society; Temple University Occupational Assessment Proctor for Baking, Pastry, and Culinary Arts; ACF Culinary Arts Salon winner; state certified food sanitation manager; graduate of Bucks County Technical High School; possess Hospitality, Supervision, and Nutrition certification through the American Culinary Federation and Commercial Baking and Pastry through Temple University; possesses Pennsylvania teaching certificate.

FACULTY AND STAFF PROFILES

DR. THOMAS GREGOR

Assignment: Work-Based Education Teacher/Coordinator

Ph.D., Vocational, Technical and Adult Education, minors in Industrial Management and College Administration, University of Missouri; M.S. in Technical Education and Industrial/Consumer Psychology, Purdue University; B.S. in Education and Engineering, Purdue University, five years secondary school teaching; two years of experience working with the State Department of Education; nine years university teaching experience in engineering and vocational education, five years university administration experience; published numerous articles and textbooks in technical and professional areas; nineteen years business/industry experience in corporate training, employee relations, and organizational development; held numerous leadership positions in educational and business associations; possesses Pennsylvania certificates in teaching, Cooperative Education, and Supervisor and Director of Vocational Education.

STEPHANIE GREGORY

Assignment: School Counselor

M.S. in Psychology, St. Joseph's University; B.S. (summa cum laude) in Psychology, St. Joseph's University; thirteen years of experience working in Career and Technical Education; certified Bullying Prevention Specialist and certified QPR Suicide Prevention Gatekeeper Instructor; member of Psi Chi, The International Honor Society in Psychology, the Association for Career and Technical Education (ACTE), the Pennsylvania School Counselors Association (PSCA), the American School Counselor Association (ASCA), the Bucks County School Counselors' Advisory Council, and the Bucks County Community College Guidance Counselor Advisory Board; possesses Pennsylvania Secondary School Counselor certification.

STEVEN GUINAN

Teaching Assignment: Web Design and Interactive Media

M.Ed. in Business, Computer, & Technology Education, Temple University; B.S. in Graphic Design Communications, Philadelphia University; five years professional work experience in business management; five years professional work experience as a graphic designer; certified in Microsoft Office and Adobe Dreamweaver, Illustrator and PhotoShop; member of the National Business Association of Education; possesses Pennsylvania teaching certificate in Cooperative Education and Business, Computers, and Information Technology.

ARNOLD JAZLOVIETCKI, JR.

Teaching Assignment: Collision Repair Technology

B.S. in Education, Temple University; broad range of occupational experience in all aspects of automotive collision repair; ASE certified in the areas of painting and refinishing, structural, and non-structural analysis and damage repair; I-CAR certified in eight areas of auto collision; possesses master level certification as a PPG painter and painter's trainer; Chief Automotive certificate for Full Frame Analysis and Repair Planning, Design Based Repair; Mitchell International certificate in Advanced Computer-Assisted Estimating; member of I-CAR's Collision Repair Instructor Network Association (CRIN); thirty years teaching experience in automotive collision repair; graduate of Middle Bucks Institute of Technology; possesses Pennsylvania certificates in teaching and Cooperative Education.

FACULTY AND STAFF PROFILES

CRAIG MALINOWSKI

Teaching Assignment: Computerized Drafting & Engineering Graphics

B.S. in Architecture, Drexel University; A.S. in Architectural Drafting, Bucks County Community College; graduate of Middle Bucks Institute of Technology; twenty-five years occupational experience in Architecture and Drafting Technology; member of the American Design Drafting Association (ADDA) and National Council of Architectural Registration Boards (NCARB); certified in OSHA 10-hours Construction Safety and certified Drafting Instructor with ADDA; possesses Pennsylvania teaching certificate.

MICHAEL McCOMBE

Teaching Assignment: Culinary Arts & Science

Graduate of the Culinary Institute of America, Hyde Park, New York; over forty years occupational experience in the hospitality industry working in both management and chef positions at various prestigious resort hotels, restaurants, country clubs, catering establishments, and food service companies; President and past Vice-President of the American Culinary Federation (ACF) Philadelphia Chapter; ACF Certified Executive Chef (CEC) and Certified Culinary Educator (CCE); possesses ACF certification in sanitation, supervisory hospitality management, nutrition and gluten free; academic mentor for the Culinary Institute of America; graduate of Middle Bucks Institute of Technology; National Technical Honor Society Advisor; recipient of the ACF Cutting Edge Award; instructor for the National Restaurant Association; recipient of the Central Bucks Chamber of Commerce Tree of Life Outstanding Educator Award; selected as Pennsylvania's Outstanding New Vocational Teacher by the Pennsylvania Association for Career and Technical Education (PA-ACTE); inducted into the American Academy of Chefs; possesses Pennsylvania teaching certificate.

RANDALL McDOWELL

Teaching Assignment: Electrical Technology

B.S. in Vocational Education, Temple University; possesses PA Journeyman's certification; twenty-seven years of occupational experience in the field of residential and commercial electricity; certified in C-Tech Copper Based Cabling Systems and C-Tech Fiber Optic Based Systems; Green Advantage Environmental Residential/Commercial certification; National Center for Construction Education and Research (NCCER) Certified Electrical Instructor; possesses OSHA 10-hour Construction Safety certification; eleven years teaching experience; member of Electrical Association of Philadelphia; advisor to the student chapter of the National Home Builders Association; possesses Pennsylvania teaching and Cooperative Education certificates.

JO ANN MCLAUGHLIN

Teaching Assignment: Cosmetology

Teaching experience of over twenty-five years in private education; holds a cosmetology teaching license from the State Board of Cosmetology; member Cosmetology Educators of America; salon stylist; Matrix and Goldwell Certified Colorist; Pivot Point Certified; CliC certified; Certified in Babe Hair Extensions; Martin Parsons and Paul Mitchell trained; Curriculum Development Manager and Regional Educational Director for private beauty school; member of the Association of Vocational Teachers Educating in Cosmetology; previously recognized as Teacher of the Year by Wilfred Academy; possesses Pennsylvania teaching certificate.

FACULTY AND STAFF PROFILES

LYNDA MOYER

Teaching Assignment: Medical & Health Professions

B.S. (magna cum laude) in Nursing, Gwynedd Mercy University; twenty years nursing experience specializing in rehabilitation and long-term care; professional work experience includes employment through the American Red Cross as a Nursing Instructor for their Certified Nurse's Aide Program with clinical component; pursuing an M.Ed. in Education, Temple University; possesses Professional Nursing license in Pennsylvania and Pennsylvania teaching certificate.

JEFFREY MUSCHLITZ

Teaching Assignment: HVAC/Plumbing Technology

A.S. in HVAC/Plumbing Technology, Pennsylvania College of Technology; five years as Adjunct Professor in HVAC Technology at Northampton Community College; seventeen years as HVAC/R contracting business owner; Pennsylvania Registered Master Plumber; Pennsylvania Licensed Residential Electrician; licensed Universal Refrigerant Technician; Master Oil Burner certification; Copeland Compressor certification; Plumbing Certificate from Pennsylvania College of Technology; R-410a certification; Trac and Gas Tite Flex Gas Pipe certification; Carrier Heat Pump certification; OSHA 10-hour Construction Safety certification; NCCER HVAC, Plumbing, and Core Instructor certification; Keystone Technology Integrator; Pneumatic Controls, Chiller and Steam Systems experience; twenty-four years of occupational experience in the HVAC/Plumbing industry; fourteen years teaching experience in the HVAC/Plumbing Technology program; possesses Pennsylvania teaching certificate.

THOMAS OMERZA

Teaching Assignment: Networking & Operating Systems Security

A.S. in Computer Sciences, Temple University; Microsoft Certified Systems Engineer (MCSE); MCP plus Internet; CompTIA A+ Certified Computer Repair Technician; Certified Computer Forensics Examiner (CCFE); Certified Data Recovery Professional (CDRP); nine years of experience as computer network administrator at George Westinghouse Vocational Technical High School; three years as network product manager for the Chubb Institute, Parsippany, NJ; twenty-one years teaching experience in computers and electronics; twenty-five years occupational experience in the computer industry; president and owner of Moonlight Computer Consulting; holds F.C.C. radio license; proudly served in the U.S. Navy; possesses Pennsylvania teaching certificate.

STACY PAKULA

Assignment: Career and Technical Education Supervisor

M.A. in Psychology, LaSalle University; B.S. in Psychology, James Madison University; twelve years as certified test supervisor through ACT; certified Student Assistance Program (SAP) facilitator; certified Olweus Bullying Prevention Specialist and QPR Suicide Prevention Gatekeeper; member of Psi Chi, The International Honor Society in Psychology, the Pennsylvania Association of Career and Technical Administrators (PACTA), and the Pennsylvania School Public Relations Association (PennSPRA); graduate of the Central Bucks Chamber of Commerce Leadership Advancement Program; completed Pennsylvania Vocational Supervisor program at Temple University; possesses Pennsylvania Supervisor of Career and Technical Education certification.

FACULTY AND STAFF PROFILES

JOHN POLCINO

Teaching Assignment: Engineering Related Technology

B.S in Mechanical Engineering Technology, Spring Garden College; thirty six years' of industry related experience as a design and project engineer and director of operations; professional development training in Continuous Quality Improvement, Industrial Safety and Accident Prevention, HACCP, Lean Manufacturing, and OSHA 10-hour Safety Certification; possesses Pennsylvania teaching certificate.

LISE RICH

Teaching Assignment: Early Childhood Care & Education

M.Ed. in Special Education, Arcadia University; B.S. (cum laude) in Early Childhood Care and Elementary Education, Temple University; Director of Li'l Bucks Partners in Learning Child Care Center; member of National Association for the Education of Young Children (NAEYC) and Pennsylvania Child Care Association (PACCA); twenty-five years teaching experience with populations ranging from preschool to adults in a variety of settings, including public and private schools; experience in self-contained learning support and emotional support classrooms; Pennsylvania Quality Assurance System (PQAS) Organizational Trainer, and Child Development Associate (CDA) Professional Evaluator; possesses the PA Child Care Director's credential and Pennsylvania teaching certificate.

ANTHONY ROGERS

Teaching Assignment: Residential Construction

Twelve years of occupational experience, including working for a custom home builder and owner/operator of a residential construction and carpentry business; ten years of teaching experience; National Center for Construction Education and Research (NCCER) certified Carpentry Instructor; completed course work at Temple University, Moravian College, Delaware Valley College, and Bucks County Community College; possesses Pennsylvania teaching certificate.

BRADLEY ROSENAU

Teaching Assignment: Commercial Art & Design

M.A. (magna cum laude) in Art Education with an emphasis on Special Populations, Moore College of Art and Design; B.S./Masters equivalency degree in Technical Education, Pennsylvania State University; Adobe Certified Associate Specialist Educator in Certiport Visual Communications using Photoshop, Illustrator, and InDesign; awarded the Pennsylvania State University College of Education Alumni Outstanding Professional Teacher Award in 2010; extensive studio and freelance work, including experiences with illustration and graphic design for University Graphics Services and USA Today newspapers; served as newsletter chairperson for Omicron Tau Theta, National Honorary Professional Graduate Society in Career and Technical Education, Temple University; served as newsletter editor for the Pennsylvania State University Alumni Association, Montgomery County chapter; possesses Pennsylvania teaching certificate.

FACULTY AND STAFF PROFILES

ROBERT SCHWARZ

Teaching Assignment: Automotive Technology

B.S. in Automotive Technology Management, Pennsylvania College of Technology; previous teaching experience as an automotive instructor at Community College of Philadelphia; occupational experience of greater than ten years working in dealerships and independently owned garages; ASE Certified Master Technician; ASE Certified L1 Advanced Engine Performance Specialist; ASE Certified Refrigerant Recovery and Recycling Technician; holds Pennsylvania Safety Inspector/Instructor license, Pennsylvania Emissions Inspector/Instructor license; Pennsylvania Emissions Repair Technician license; General Motors (GM) certified technician in all areas of an automobile; Saab Master-certified technician; possesses Pennsylvania teaching certificate.

GREGORY SMITH

Teaching Assignment: Horticulture Landscape & Design

B.S. in Business with a concentration in Marketing, Mount St. Mary's College; seventeen years industry experience, including fifteen years as general manager of a company specializing in residential and commercial landscaping and hardscaping; certified Interlocking Concrete Paver Installer; past member of Pennsylvania State University Agricultural Education Advisory Council; Hardscaping Instructor, Pennsylvania State University Agricultural Extension Education; advisor of Middle Bucks Chapter of the Pennsylvania State FFA; chairperson, Pennsylvania State FFA Nursery Landscape Career Development Event; possesses Pennsylvania teaching certificate.

KATHRYN STROUSE

Assignment: Administrative Director

M.Ed. in Educational Administration, Gwynedd Mercy University; B.S. in Education, West Chester University; nineteen years educational administration experience; twelve years elementary teaching experience; five years corporate training and employee relations experience; member of Pennsylvania Association of Career and Technical Administrators (PACTA), Pennsylvania Association of School Personnel Administrators, and Pennsylvania Association of School Administrators; possesses Pennsylvania Elementary and Secondary Principal certification and Director of Career and Technical Education certification.

PAMELA SWOYER

Assignment: Work-Based Education Teacher/Coordinator

M.Ed. in Curriculum, Instruction, and Technology in Education, Temple University; B.S. in Retailing and Visual Communication, Syracuse University; five years broad-based executive, buying, human resources, managerial, training and recruiting experience in the retail industry; President of Bucks and Montgomery County Cooperative Education Association; member of Pennsylvania Cooperative Education Association, American and Pennsylvania Career and Technical Associations, Pennsylvania Business Education Association, National Association for Curriculum Development, Omicron Tau Theta National Honorary Professional Graduate Society in Career and Technical Education, Temple University; and the Career and Technical Student Organization SkillsUSA District 2 Board; possesses Pennsylvania teaching certificates in Cooperative Education, Marketing Education, Business Education, and Special Education K-12.

FACULTY AND STAFF PROFILES

MICHAEL SYKES

Teaching Assignment: Building Trades Occupations

Graduate of the Williamson College of the Trades; Business Administration coursework at Delaware Valley University; over twenty-nine years of occupational and supervisory experience in construction with an emphasis on home building, home remodeling, land acquisition, site improvement, entitlements, and customer service; certified in Green Advantage (Building Green Initiative); National Center for Construction Education and Research (NCCER) Core Curricula Instructor; Safety Committee Fundamentals certificate in Hazard Identification, Suicide Prevention Certificate, Safety Alerts and Beyond; Quality Management certificate from Penn State University; achievement award for Essentials of Purchasing from Rutgers University; associate recipient of The National Homebuilder of the Year award from the National Association of Homebuilders; possesses Pennsylvania teaching certificate.

LISA VIVIANO

Teaching Assignment: Dental Occupations

Graduate of Manor College; Licensed Expanded Function Dental Assistant; twenty years dental office experience; nine years teaching experience; member of the American Dental Assistants Association and PA Expanded Function Dental Assistant (EFDA) Association; possesses Pennsylvania teaching certificate.



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Early Childhood Care & Education

Electrical Technology

Engineering Related Technology

Horticulture Landscape & Design

HVAC & Plumbing Technology

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