



WESTERN MONTGOMERY CAREER AND TECHNOLOGY CENTER



What starts here changes your world!

COURSE CATALOG

77 GRATERFORD ROAD, LIMERICK, PA 19468 610.489.7272 | FAX: 610.489.8778

OUR MISSION:

The Mission of the Western Montgomery Career and Technology Center is to prepare quality citizens for lifelong productivity in a challenging and changing world by forming innovative partnerships among family, school and community.

In addition to preparation for direct entry into the workforce, WMCTC students are prepared to enroll in college studies. Many two and four year institutions offer programs of study which complement the occupational and technical areas offered at WMCTC.



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ABOUT OUR SCHOOL



The Western Montgomery Career and Technology Center (WMCTC) is a public Career and Technical Education Center for students in grades 9-12. The WMCTC serves as an extension of the Pottsgrove School District, Spring-Ford School District, and the Upper Perkiomen School District. Programs prepare students for both career and college readiness. All of the WMCTC programs are aligned to the Pennsylvania State Standards, focus on national industry recognized certifications, and are tuition-free for all students from our sending districts.





PROGRAMS What starts here changes your world!

ADVANCED MANUFACTURING



The Advanced Manufacturing Program is designed to prepare students interested in pursuing a career path and/or post-secondary training opportunities in various metalworking occupations. Students in this program will learn the safe use of hand tools and the set-up and operation of conventional machine tools such as lathes, milling machines, drill presses, and surface grinders. The emphasis of the training focuses on the set-up, operation and programming of Computer Numerically Controlled (CNC) machine tools. CAD/CAM programming software instruction and training is a key component of the CNC instruction. Additionally, the interpretation of engineering drawings, semi-precision and precision measurement, heat treating, statistical process control, material characteristics and metallurgy are components of the curriculum.

PROGRAM CONCENTRATIONS:

- Hand & Power / Manual Machine Tools
- Computer Numerical Control (CNC)
- Precision & Semi-Precision Measuring Tools
- Heat Treatment
- Statistical Process Control
- Fabrication & Layout
- Interpret Industrial Prints
- Metallurgy

CAREER OPTIONS:

- CNC Programmer
 Machinist
- CNC Machinist
- CNC Operator
- Tool & Die Maker
 Sheet-metal Worker

COOPERATIVE EDUCATION ELIGIBLE:

Yes



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SALARY RANGES:

- Machinist | \$46,800
- CNC Programmer | \$50,585
- CNC Operator | \$37,876
- Tool & Die Maker | \$51,064
- Sheet Metal Worker | \$46,945

CERTIFICATIONS:

- National Institute for Metalworking Skills (NIMS):
 - Measurement, Materials & Safety
 - Job Planning, Benchwork & Layout
 - Manual Milling Skills I
 - Turning Operations
 - Grinding Skills I
 - Drill Press Skills I
- CNC Milling: Programming Setup & Operations
- CNC Turning: Operations
- OSHA 10 Hour Certification

COLLEGE CREDIT OPPORTUNITIES:

- Pennsylvania College of Technology
- Thaddeus Stevens College of Technology
- Reading Area Community College
- Montgomery County Community College
- Delaware County Community College

- Hydromotion
- MacKissic Inc
- KLT Group
- Bracalente Manufacturing
- Bless Precision Tool
- Knoll Inc

AUTOMOTIVE TECHNOLOGY



The Automotive Technology program has been specifically designed to prepare students to continue their training at post-secondary schools, or within industry. The program follows the ASE (Automobile Service Excellence) program of study task list and similarly Pennsylvania's program of study. The program content consists of classroom and lab instruction in: automotive fundamentals, brakes, steering and suspension, electrical/electronic systems, engine performance, PA Safety and Emission Inspection procedures, and engine repair. The program utilizes a combination of classroom instruction, computer-based learning and hands-on lab work for an innovative learning process. Student enthusiasm is enhanced by the excitement of participating in various automotive skills contests offering prizes and scholarship money.

PROGRAM CONCENTRATIONS:

- Safety
- General Maintenance
- Driveline Repair
- Brakes
- Steering Suspension
- Electrical/Electronic Systems
- Engine Electrical
- Minor Fabrication

CAREER OPTIONS:

- Automotive Dealer/Franchise Technician
- Automotive Independent Technician
- Automotive Parts Counter Person
- Automotive Service Advisor

COOPERATIVE EDUCATION ELIGIBLE:

Yes



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SALARY RANGES:

- Specialty Technician | \$86,287
- Dealership/Shop Foreman | \$62,280
- Line Technician | \$43,000
- Tire or Lube Technician | \$ 24,480

CERTIFICATIONS:

- Pennsylvania State Inspection
- Pennsylvania Enhanced Emissions
- SP2 Safety Certification
- ASE Student Certification
- Valvoline Certification
- Pennsylvania Skills Certification (NOCTI)
- OSHA 10 Hour Certification

COLLEGE CREDIT OPPORTUNITIES:

- Montgomery County Community College
- Northampton Community College
- Pennsylvania College of Technology
- Delaware County Community College
- Thaddeus Stevens College of Technology

- Keyser Miller Ford
- Tri County Toyota
- Tim Uba Automotive
- Firestone
- Jeff Daniels Jeep
- Custers
- Kelly World Class Automotive
- Creamery Tire

BIOMEDICAL SCIENCE



The Project Lead The Way (PLTW) Biomedical Science program is designed for college-preparatory students who are interested in pursuing a medical or health science career. The rigorous three- course Biomedical Science sequence, Principles of Biomedical Science, Human Body Systems, and Medical Interventions is a nationally recognized curriculum that allows students to investigate the roles of biomedical professionals as they study the concepts of human medicine, medical terminology, physiology, genetics, microbiology, and public health. The PLTW curriculum is project-based and will expose students to the design process, research and analysis, teamwork, communication skills, global medicine, and human impacts. The curriculum prepares students to be the next generation of problem solvers, critical thinkers, and innovators for the global economy.

PROGRAM CONCENTRATIONS:

- Activity, Project, Problem-Based Learning Approach
- Principal of Biomedical Science
- Human Body Systems
- Medical Interventions

CAREER OPTIONS:

- Physician
- Microbiologist
- Biomedical Scientist
 O
- Epidemiologist
- Registered Nurse
- Nurse Practitioner

- Physician Assistant
- Physical Therapist
- Occupational Therapist
- Anesthesiologist
- Clinical Laboratory
 Technologist

COOPERATIVE EDUCATION ELIGIBLE:

No



SALARY RANGES:

- Clinical Laboratory Technologist | \$50,930
- Biomedical Scientist | \$80,530
- Epidemiologist | \$70,820
- Registered Nurse | \$68,450
- Physician Assistant | \$101,480
- Physician/Family Practitioner | \$190,490

CERTIFICATIONS:

- CPR/First Aid
- Blood-borne Pathogens Certification
- Hazardous Communications
- HIPAA
- OSHA 10 Hour Certification

COLLEGE CREDIT OPPORTUNITIES:

See **PLTW.org** for more information.

CLINICAL PARTNERSHIPS OR CONNECTIONS WITH:

- Phoenixville Hospital
- Parkhouse

CARPENTRY



The Carpentry Program is an instructional program that prepares individuals to apply technical knowledge and skills to lay out, fabricate, erect, install and repair structures and fixtures using hand and power tools. This Program includes instruction in common systems of framing, construction materials, estimating, blueprint reading and finish carpentry techniques. The Program is designed to provide students with a combination of classroom theory and hands-on building experience in residential, commercial, and industrial construction trades. The Program consists of a list of PDE required tasks and additional local or value added tasks.

PROGRAM CONCENTRATIONS:

- Blueprint Reading
- Ability to use Hand & Power Woodworking Tools
- Residential & Commercial Construction Framing
- Interior Finishes (Drywall, Trim, Drop Ceilings, etc.)
- Roofing Installations
- Exterior Finishes (Siding)

CAREER OPTIONS:

- Carpenter
- Carpentry Assistant
- Carpentry Apprentice
- Maintenance Carpenter Framer
- Finish Carpenter
- House Repairer

COOPERATIVE EDUCATION ELIGIBLE:

Yes

- Door Installer
- Cabinet & Trim Installer
- Lay-out Worker
- Framer
- Assembler
- Woodworker

MOEN

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SALARY RANGES:

Hourly rates vary between \$11.96 - \$28.78 as an Entry Level Apprenticeship

CERTIFICATIONS:

- SP2 Safety Certification
- OSHA 10 Hour Certification
- Pennsylvania Skills Certification (NOCTI)

COLLEGE CREDIT OPPORTUNITIES:

- Montgomery County Community College
- Pennsylvania College of Technology
- Thaddeus Stevens College of Technology
- Delaware County Community College

- R&M Construction
- Dillworth Custom Designs
- Coventry Mall
- J.O.B. Contracting

COLLISION REPAIR



The Collision Repair program is designed for students interested in pursuing employment within the Collision Repair industry. Students have the opportunity to gain entry level skills required for employment. These skills are acquired through classroom presentations, hands-on guided practice in the shop and computer based learning modules.

PROGRAM CONCENTRATIONS:

CAREER OPTIONS:

- Safety
- Vehicle construction
- Panel replacement and alignment
- Corrosion protection
- Welding and cutting
- Refinishing
- Masking
- Detailing
- Surface prep
- Estimating
- Plastic repair
- Metal straightening
- Movable and fixed glass replacement

- Body Technician
- Refinisher
- Detailer
- Estimator / Appraiser
- Glass Installer
- Paint-less Dent Technician
- Owner

COOPERATIVE EDUCATION ELIGIBLE:

Yes



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SALARY RANGES:

Average income for Experienced Technicians ranges from \$53,169 - \$62,508

CERTIFICATIONS:

- I-CAR
- ASE Student Certification
- SP2 Safety Certification
- Pennsylvania Skills Certification (NOCTI)
- OSHA 10 Hour Certification

COLLEGE CREDIT OPPORTUNITIES:

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

- Dickenson Fleet Services
- Mercer Collision Center
- Rowland Auto Body
- Glass & Sons Collision

COMMERCIAL ART



The Commercial Art Program spans a number of areas related to visual communications. Students prepare layout and design artwork for magazines, newspapers, books, posters, flyers, and packaging. While learning about these areas of study, students compile a portfolio to show potential employers or prepare for college entrance interviews. Academic skills utilized during this course are reading, writing, and basic math. There is heavy emphasis placed on thinking/problem solving design, and creativity. Students will use hands-on drawing skills throughout this course, as well as digital computer skills, learning many different areas of art and design.

PROGRAM CONCENTRATIONS:

- Drawing
- Illustration
- Typography
- Color Theory
- Digital Imaging
- Photography
- Adobe Software
- Mac Based Platform
- Printing
- Creative Thinking

CAREER OPTIONS:

- Graphic Designer
- Illustrator
- Animator
- Art Director
- Web Designer
- Photographer

COOPERATIVE EDUCATION ELIGIBLE:

Yes



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SALARY RANGES:

- Graphic Designer | \$52,290
- Illustrator | \$57,410
- Photographer | \$42,640
- Animator | \$72,200
- Art Director | \$101,170

CERTIFICATIONS:

- Adobe Certifications Ready
- Pennsylvania Skills Certification (NOCTI)
- OSHA 10 Hour Certification

COLLEGE CREDIT OPPORTUNITIES:

- Montgomery County Community College
- Pennsylvania College of Technology

- Unlimited Graphics
- State of Mind Apparel
- Kimberton Hunt Club
- Petaccio's Driving School
- Bon Homie Adult Day Services

COMPUTER INFORMATION SYSTEMS



The Computer Systems Networking program is an instructional program that focuses on the design, implementation and management of linked systems of computers, peripherals and associated software and prepares individuals with the technical skills required to support networks and network users. This Program includes instruction in LAN/WAN technologies and standards: system design, architecture, operating systems, security, communications protocols, client support, messaging services, network management, troubleshooting and server optimization. The Program consists of a list of PDE required tasks and additional local or value added tasks.

PROGRAM CONCENTRATIONS:

- PC Repair
- PC Upgrades
- Operating Systems
- Network Design
- Local Area Network & Wide Area
 Network Communications
- Network Cable Installation
- Wireless Access Point Installation

CAREER OPTIONS:

- Network Administrator
- Network Specialist
- Network Technician
- Computer User Support Specialist
- Help Desk Analyst
- Client Services Analyst
- Computer Operator

COOPERATIVE EDUCATION ELIGIBLE:



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SALARY RANGES:

- Computer Support Specialist | \$51,470
- Network & Computer Systems Admin | \$77,810

CERTIFICATIONS:

- CompTIA A+ Ready
- CompTIA Security + Ready
- CompTIA Networking+ Ready
- Pennsylvania Skills Certification (NOCTI)
- OSHA 10 Hour Certification

COLLEGE CREDIT OPPORTUNITIES:

- Montgomery County Community College
- Bucks County Community College
- Reading Area Community College
- Pierce College
- Delaware County Community College
- Thaddeus Stevens College of Technology

COMPANIES STUDENTS HAVE WORKED WITH:

• KPInterface

COSMETOLOGY



The Cosmetology program is designed to prepare students for the state's professional licensing examination for Cosmetologists, and entry-level employment in the beauty profession. In this three year program, students are provided the opportunity to earn 1250 hours of state required instruction and develop skills in all aspects of Cosmetology including: sculpting, styling, perming, hair color, skin care, chemical hair straightening, nails, and most importantly, people skills. It is necessary for students to keep their work area and equipment organized and well maintained. Students should also possess a sense of form, artistry, and creativity. Hands on experience is obtained several days a week in The Salon. Upon completion of 900 hours, students are eligible and encouraged to take the state licensing exam. Students who pass the state board exam and successfully complete 1250 hours will qualify for PA state licensure.

PROGRAM CONCENTRATIONS:

- Hair Cutting and Styling
- Hair Coloring
- Chemical Services
- Nail and Skin Care
- Salon Operations
- Customer Relations
- Physical Sciences

CAREER OPTIONS:

- Hairstylist/Cosmetologist
- Salon Owner
- Color Specialist
- Nail Technician
- Esthetician/Make-up Artist
- **COOPERATIVE EDUCATION ELIGIBLE:**

- Platform Artist/ **On-stage Educator**
- Cosmetology Instructor
- Certified Trichologist
- Hair Replacement **Specialist**



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SALARY RANGES:

- Cosmetologist/Hairstylist | \$16,300 - \$53,500+ - Salon Owner | \$33,000 - \$131,000+ - Esthetician/Make-up Artist | \$22,000 - \$136,000+ - Cosmetology Instructor | \$33,000 - \$59,000

CERTIFICATIONS:

 SP2 Cosmetology Pennsylvania State Board Cosmetology License • Pennsylvania Skills Certification (NOCTI) OSHA 10 Hour Certification

*Application for state licensure requires a criminal background check.

COLLEGE CREDIT OPPORTUNITIES:

Montgomery County Community College

- Great Clips
- Super Cuts
- Lords & Ladies Salon and Spa

CULINARY ARTS



The Culinary Arts Program prepares students for a wide variety of entry level positions in the Culinary Arts industry. The program introduces students to the necessary culinary and basic management skills that are critical in today's hospitality industry.

PROGRAM CONCENTRATIONS:

- Knife skills
- Mise en place
- Sanitation and Food Safety
- Equipment Identification
- Stocks and Soups
- Nutrition
- Garde manger
- Fish and Shellfish
- Starches
- Vegetables
- Meat and Poultry Identification
- Grilling and Barbecue
- Baking
- Restaurant Management
- Dining Room Hospitality

CAREER OPTIONS:

- Line Cook
- Prep Cook
- Chef
- Sous Chef
- Caterer
- Baking & Pastry Arts
- Food Stylist
- Butcher
- Food Salesman
- Server/food runner/host or hostess
- Food Truck Owner
- Restaurant owner/manager

COOPERATIVE EDUCATION ELIGIBLE:

Yes



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SALARY RANGES:

- Executive Chef | \$63,125
- Sous Chef | \$34,176
- Pastry Chef | \$37,190

CERTIFICATIONS:

- ServSafe
- CPR
- Pennsylvania Skills Certification (NOCTI)
- OSHA 10 Hour Certification

COLLEGE CREDIT OPPORTUNITIES:

- Montgomery County Community College
- Delaware County Community College
- Pennsylvania College of Technology
- Walnut Hill (Restaurant School)
- Culinary Institute of America

- Wegman's
- Chick-fil-a
- Craft Ale House
- DaVinci's Restaurant

DENTAL OCCUPATIONS

The Dental Occupations program prepares students for entry level employment as a dental assistant and a strong foundation for continuing to post-secondary education. This program incorporates lectures, demonstrations, and hands-on experience in a variety of dental related subjects. The students will develop the knowledge and skills necessary to provide safe practices by following OSHA standards. Course work will include: infection control, office procedures, radiology, operative dentistry, dental materials, and dental laboratory procedures. Upon completion of this program, the students will be well prepared for a career in the dental field.

PROGRAM CONCENTRATIONS:

- Safety
- Dental Radiology
- Restorative Procedures
- Oral Anatomy
- Dental Impressions

CAREER OPTIONS:

- Dental Assistant
- Dental Hygienist
- Dentist
- Circulating Assistant
- Dental Assistant Instructor
- Certified Laboratory Technician
- Expanded Functions Dental Auxiliary

COOPERATIVE EDUCATION ELIGIBLE:

SALARY RANGES:

- Dental Assistant | \$36,940
- Dental Hygienist | \$72,910
- Dentist | \$153,900
- Dental Laboratory Technician | \$37,680
- Dental Assisting Instructor | \$50,660
- Expanded Functions Dental Assistant | \$53,060

CERTIFICATIONS:

- CPR/First Aid
- Dental Radiology
- Pennsylvania Skills Certification (NOCTI)
- OSHA 10 Hour Certification

COLLEGE CREDIT OPPORTUNITIES:

- Montgomery County Community College
- Harcum College
- Manor College

- Dr. Eric Hans, DMD
- Community Medical & Dental Center

DIESEL TECHNOLOGY



The Diesel Technology program offers training for employment as an entry level diesel technician or a strong foundation for continuing into post-secondary education. Classroom instruction is reinforced with hands-on experience working on medium/heavy duty truck systems and engines. Coursework includes: instruction in brake systems, steering and suspension systems, engines, fuel systems, coolant systems, electrical systems, and drive-trains. Students will also utilize math and writing skills throughout coursework.

PROGRAM CONCENTRATIONS:

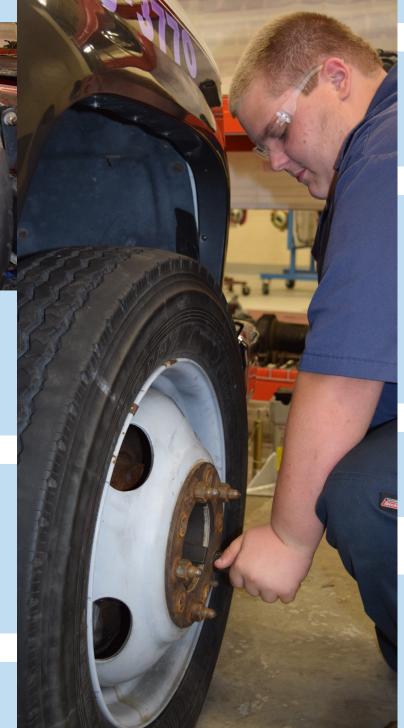
- Orientation and Safety
- Tools and Fasteners/Hardware
- Suspension and Steering Systems
- Preventative Maintenance
- Diesel Engines
- Air Intake & Exhaust Systems
- Cooling Systems
- Electrical/Electronic Systems
- Drive Line

CAREER OPTIONS:

- Diesel Technician
- Heavy Equipment Maintenance
- Fleet Maintenance
- Dealership/Distributorship Technician

COOPERATIVE EDUCATION ELIGIBLE:

Yes



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SALARY RANGES:

- Diesel Technician | \$45,170
- Heavy Equipment Maintenance | \$49,370
- Automotive Specialty Technician | \$38,470

CERTIFICATIONS:

- SP2 Safety Certification
- PA State Inspection
- PA Enhanced Emissions
- Bendix Brake Training
- Meritor Bullpen
- Cummins Quickserve Online Training
- ASE Student Certification
- OSHA 10 Hour Certification

COLLEGE CREDIT OPPORTUNITIES:

- Montgomery County Community College
- Johnson College

- Custer's Garage
- Young's Tire & Auto
- Venezia Trucking
- Creamery Tire

EARLY CHILDHOOD EDUCATION



The Early Childhood Education program offers training for employment in the Early Childhood profession or a strong foundation for continuing into post secondary education. This "teacher training" course emphasis of the curriculum is the development of the knowledge and skills necessary to provide safe, healthy, positive, developmentally appropriate, high quality care for young children. Classroom instruction is reinforced with hands-on experience teaching toddler and preschool-age children who are enrolled in the WMCTC Buckaroo Preschool.

PROGRAM CONCENTRATIONS:

- Planning a safe and healthy learning environment
- Managing effective programs
- Maintaining a commitment to professionalism
- Observing and recording children's behavior
- Understanding principles of child development and learning

CAREER OPTIONS:

- Kindergarten Teachers (Except Special Ed.)
- Elementary School Teachers (Except Special Ed.)
- Teacher Assistants
- Childcare Workers
- Nannies
- Recreation Workers

COOPERATIVE EDUCATION ELIGIBLE:

Yes



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SALARY RANGES:

Childcare Provider & Assistant | \$18,510-\$28,790
Kindergarten Teacher (Except Special Ed.) | \$30,920-\$79,270

CERTIFICATIONS:

- Pediatric CPR and First Aid
- CDA Ready
- Pennsylvania Skills Certification (NOCTI)
- OSHA 10 Hour Certification

COLLEGE CREDIT OPPORTUNITIES:

- Montgomery County Community College
- Harcum College
- Reading Area Community College
- Pennsylvania College of Technology
- Manor College

- Bright Beginnings
- Kiddie Academy (Royersford)
- Goddard
- Wee Care
- Magic Memories
- Red Hill Christian School

ELECTRICAL OCCUPATIONS

Electrical Occupations has been designed to provide students with entry level skills and knowledge to directly enter the workforce or pursue further education. The program incorporates a combination of theory lessons and practical experiences that provides instruction in: electrical theory, National Electrical Code, residential, commercial, and industrial wiring techniques, telecommunications, security, fire alarm, and electrical maintenance. The importance of safety, quality, productivity, and teamwork is also emphasized in this program. WMCTC provides the opportunity for students to participate in the student built house project. Graduates may enter an apprenticeship program to be trained as a highly paid journeyman electrician, or lineman. Electricians install, connect, test, and maintain electrical power systems for residential, commercial, and industrial buildings. The electrical occupations student should have good mechanical aptitude, manual dexterity, eye-hand coordination, able to distinguish between colors, mathematics fundamentals, and reading ability.

PROGRAM CONCENTRATIONS:

- Residential Wiring
- Commercial Wiring
- Light Industrial Wiring
- Special Systems Wiring Skills including Communications

CAREER OPTIONS:

- Electrician or related employment
- Electrical Systems Technician
- Electrical Engineer

COOPERATIVE EDUCATION ELIGIBLE:

Yes



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SALARY RANGES:

- Electrician | \$31,800 - \$90,420

CERTIFICATIONS:

- Various SP2 Certifications
- American Ladder Institute Certifications
- OSHA 10 Hour Certification
- Pennsylvania Skills Certification (NOCTI)

COLLEGE CREDIT OPPORTUNITIES:

- Montgomery County Community College
- Harrisburg Area Community College
- Orleans Technical Institute
- Rosedale Technical College

- Response Electric
- GR Electric
- Gillespie Electric

HEALTH SCIENCE TECHNOLOGY



The Health Science Technology Program consists of three components: Introduction to Health Care and Careers, Nursing Assistant Preparation (NA) and Medical Assistant (MA). This program is a demanding instructional program geared toward the student pursuing a career in the medical field. Students have the opportunity to gain entry level skills required for employment in the Health Care Field. This program provides a combination of classroom theory and hands-on health care experience working with patients in skilled nursing facilities, hospital volunteering and community day care participation.

PROGRAM CONCENTRATIONS:

- Anatomy & Physiology
- Nurse Aide Training Prep
- Home Care Concentration
- Medical Assisting
- Medical Terminology

CAREER OPTIONS:

- Medical & Clinical Lab Technician
- Radiologic Technologist
- Respiratory Therapist
- Pharmaceutical Technician
- Physical Therapist
- Occupational Therapist
- Certified Nursing Assistant
- Registered Nurse
- Social Worker

COOPERATIVE EDUCATION ELIGIBLE:



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SALARY RANGES:

- Registered Nurse | \$68,450
- Medical & Clinical Lab Technologists | \$47,820
- Medical & Clinical Lab Technicians | \$34,160
- Radiologic Technologists | \$55,910
- Respiratory Therapists | \$55,870
- Pharmacists | \$115,000
- Physical Therapists | \$84,500

CERTIFICATIONS:

- CPR/First Aid
- Personal Care Attendant
- Interviewing Certification
- Hazardous Communications
- Blood Bourne Pathogens Certification
- Pennsylvania Skills Certification (NOCTI)
- OSHA 10 Hour Certification

COLLEGE CREDIT OPPORTUNITIES:

- Montgomery County Community College
- Harcum College

- Chestnut Knoll Home Services
- Parkhouse Adult Day Care Programs
- Pottstown Manor Care

HEATING VENTILATION & AIR CONDITIONING



This program provides knowledge and skills training in: HVAC safety, Electrical controls for heating and air conditioning equipment. The refrigeration process as it applies to air conditioning, gas and oil heating systems, air distribution system installation, using metal and duct board materials, the installation, servicing, and troubleshooting of air conditioners, heat pumps, hydroponic and warm air heating systems. The student will also learn pipe fitting, soldering, and brazing of the different types of piping materials. All basic hand tools, power tools, and HVAC related tools will be used on a regular basis to introduce the student on the proper usage of each tool. The combination of lab practice and theory prepares students for employment and advancement in today's Heating, Ventilation and Air Conditioning (HVAC) industry. Students entering this program should have a basic mechanical aptitude, be able to move heavy objects, be self-motivated and a self-starter. This program is HVAC Excellence accredited.

PROGRAM CONCENTRATIONS:

- Safety
- HVAC Electrical
- Hand, Power & Refrigeration Tools
- Piping Practices (Copper, Iron Pipe, PVC, PEX)
- Cooling (AC Mini Splits & Split Units
- Heating (Oil & Gas Furnaces & Boilers)
- Heat Pumps

CAREER OPTIONS:

- HVAC Installer
- HVAC Mechanic
- HVAC Service Technician

COOPERATIVE EDUCATION ELIGIBLE:

Yes



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SALARY RANGES:

- Heating & Air Conditioning Mechanics & Installers | \$45,000
- Refrigeration Mechanics & Installers | \$45,000
- Energy Engineering Technician | \$49,000

CERTIFICATIONS:

- OSHA 10 Hour Certification
- HVAC Excellence
 - HVAC Electrical
 - Electric Heat
 - Gas Heat
 - Oil Heat
 - Air Conditioning
 - Heat Pump
- EPA 608 Safety
- R410A Safety
- Pennsylvania Skills Certification (NOCTI)

COLLEGE CREDIT OPPORTUNITIES:

- Montgomery County Community College
- Pennsylvania College of Technology
- Thaddeus Stevens College
- Delaware County Community College
- Northampton Community College

- Longacre HVAC
- Arctic Desert
- Moyer HVAC
- Wallace Electric
- Quality Degree Inc.

PROTECTIVE SERVICES



An instructional program that prepares individuals to apply technical knowledge and skills required to perform entry-level duties in law enforcement, firefighting, EMT and other safety services. This program stresses the techniques, methods and procedures specific to the areas of criminal justice and fire protection especially in emergency and disaster situations. Physical development and self-confidence skills are emphasized due to the nature of the specific occupation(s). In addition to the application of mathematics, communication, science and physics, students receive training in social and psychological skills, map reading, vehicle and equipment operations, the judicial system, pre-hospital emergency medical care and appropriate emergency assessment, treatment and communication.

PROGRAM CONCENTRATIONS:

- High Degree of Military Bearing and Decorum
- Physical Development
- Self-Confidence
- Ability to Work as a T.E.A.M. (Together Everyone Accomplishes More)
- Communication Skills

CAREER OPTIONS:

• Police. Fire.

• Firefighter

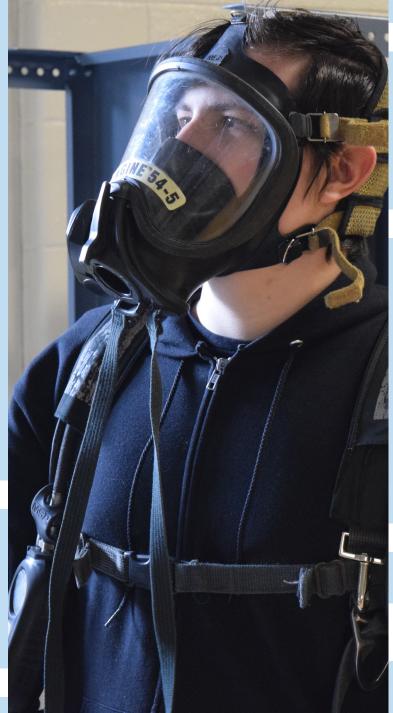
• EMT

Ambulance Dispatchers

Loss Prevention Officers

- Police Officer
- Correctional Officer
- First Line Supervisors Protection Engineer
- Security Guard
- Records Officer
- Security Officers
- Security Consultants

COOPERATIVE EDUCATION ELIGIBLE:



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SALARY RANGES:

- Police Officer | \$55,000
- Correctional Officer | \$40,000
- Records Officer | \$40,000
- Security Officers | \$35,000
- Security Consultants | \$25,000
- Loss Prevention Officers | \$28,000
- EMT | \$38,000 Firefighter | Volunteer

CERTIFICATIONS:

- Handcuffing (TTH)
- Defensive Tactics (MDTS)
- Firearms Safety/Basic Marksmanship Skills (NRA/PA State Police)
- Basic Expandable Baton (MEB)
- Advance Expandable Baton (MEB)
- Spontaneous Knife Defense (PPCT)
- Pepper Spray (OCAT)
- Taser (Taser International)
- Domestic/International Terrorism (PPCD)
- CPR/AED (American Red Cross)
- Pennsylvania Skills Certification (NOCTI)
- OSHA 10 Hour Certification

COLLEGE CREDIT OPPORTUNITIES:

- Montgomery County Community College
- Manor College
 Harcum College

- Parkhouse Geriatric Center
- Internship Echelon Executive Protection
- Internship United States Marine Corps

SPORTS MEDICINE



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.

PROGRAM CONCENTRATIONS:

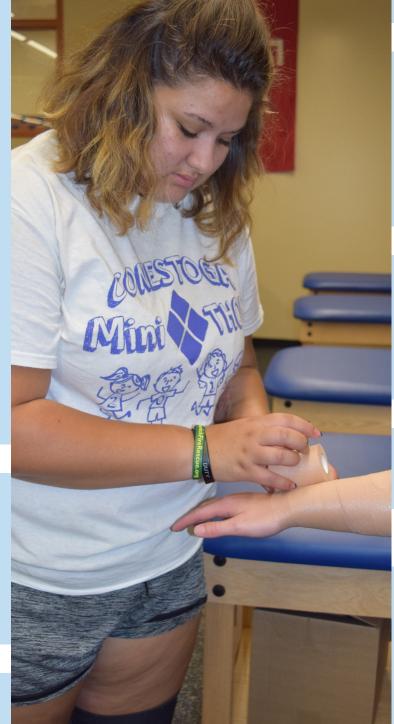
- Anatomy and Physiology
- First Aid and CPR
- Evaluation and Assessment of Injuries
- Taping and Bracing
- Therapeutic Exercise and Restorative Care
- Nutrition and Weight Management
- Strength and Conditioning
- Medical Terminology and Documentation
- Exercise Physiology
- Biomechanics

CAREER OPTIONS:

- Athletic Trainer
- Personal Trainer
- Physical Therapist
- Physical Therapist Assistant
- Occupational Therapist
- Nutritionist

COOPERATIVE EDUCATION ELIGIBLE:

Yes



www.westerncenter.org

SALARY RANGES:

- Athletic Trainer | \$45,630
- Personal Trainer | \$38,160
- Physical Therapist | \$85,400
- Physical Therapist Assistant | \$45,290
- Occupational Therapist | \$81,910
- Nutritionist | \$58,920

CERTIFICATIONS:

- American Heart Association Heartsaver CPR & AED
- American Red Cross First Aid
- Personal Fitness Trainer Ready
- OSHA 10 Hour Certification

COLLEGE CREDIT OPPORTUNITIES:

Montgomery County Community College

- Mishock PT
 Spring Valley YMCA
- Phoenix Rehab
- Good Shepherd Rehab
- ATI Rehab

- MAXOUT Performance
- Rothman Orthopedic
- Upper Perk SM & PT
- UP YMCA

WELDING



The Welding Program prepares students to apply technical knowledge and skills in shielded metal arc welding, gas metal arc welding, gas tungsten arc welding, flux-core arc welding, brazing, and torch cutting. Students learn safety practices, types and application of electrodes and welding rods, properties of metals, industrial drawing reading, principles of electricity, interpretation of welding symbols, quality control for testing welds by various methods, use of manuals and specification charts, use of portable grinders and handtools, positioning and clamping, fabricating, fixturing, and welding standards established by the American Welding Society.

PROGRAM CONCENTRATIONS:

- Precision & Semi-Precision Measuring Tools
- Welding Processes
- Arc Welding
- Fabrication & Layout
- Flame Cutting
- Welding Electrodes
- Interpret Industrial Prints & Welding Symbols
- Basic Metallurgy

CAREER OPTIONS:

• Structural Welder/

• Welder/Cutter/Fitter

Fabricator

- Production Welder
- Welding Inspector
- Welding Engineer
- Pipe-fitter/Steamfitter

COOPERATIVE EDUCATION ELIGIBLE:

Yes

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SALARY RANGES:

- Welder, Cutter, Fitter | \$39,395
- Pipe-fitter, Steamfitter | \$51,459

CERTIFICATIONS:

- AWS SENSE
- Pennsylvania Skills Certification (NOCTI)
- National Safety Council (NSC)
 Lift Truck Operator Certification
- OSHA 10 Hour Certification

COLLEGE CREDIT OPPORTUNITIES:

- Montgomery County Community College
- Pennsylvania College of Technology
- Thaddeus Stevens College of Technology
- Triangle Tech
- Delaware County Community College

- Pennsylvania Insert Company
- A.W. Mercer Inc
- MacKissic Inc
- Knoll Inc
- Contrast Metal Works

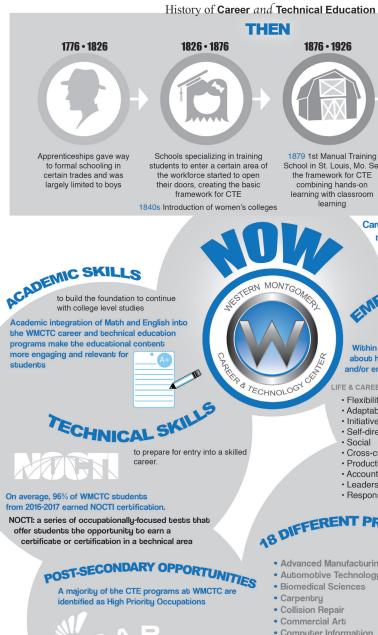
STUDENT ACTIVITIES

At WMCTC, students may participate in a variety of exciting activities and clubs, including:

- **ATC Automotive Competition** •
- **CCAP** Careers Through Culinary Arts • Program
- **Chick-fil-A Leadership Academy** •
- **CIS TAC Team** •
- FCCLA Family, Career and Community • Leaders of America
- **Greater Philadelphia Auto Dealers** • **Association Competition**
- **HOSA Health Science Technology** • Education
- Northampton Community College • **Automotive Competition**
- NTHS National Technical Honors Society •
- SkillsUSA •
- **UTI Automotive Competition**







Students Occupationally

and Academically Ready

www.westerncenter.org

1876 · 1926

1879 1st Manual Training School in St. Louis, Mo. Set the framework for CTE combining hands-on learning with classroom learning

1926 · 1976



1st mass acceptance of CTF during World War I and II; CTE was used to retrain citizens to re-enter the workforce and prepare for technical skills needed for defense purposes

Career & Technical Education maximizes student opportunities by developing their:

OYABILIT

Within 6 months of high school graduation about half of WMCTC graduates are employe and/or enrolled at a post-secondary instituti

FE & CAREER SKILLS

- Flexibility
- Adaptability
- Initiative
- Self-direction
- Social
- Cross-cultural LEARNING & INNOVATION SKILLS
- Productivity
- Accountability
- Leadership
- Responsibility

AB DIFFERENT PROGRAMS

- Advanced Manufacturing
- Automotive Technologu
- Biomedical Sciences
- Carpentry
- Collision Repair
- Commercial Art
- Computer Information
- Cosmetology
- Culinary Arts

- Dental Occupations
- Diesel Technologu
- Early Childhood Education

· Critical thinking

Problem solving

Communication

Entrepreneurship

Collaboration

· Creativity

Innovation

- Electrical Occupations
- Health Science Technologu
- HVAC
- Protective Services
- Sports Medicine
- Welding

HIGH SKILL | HIGH WAGE | HIGH DEMAND

SOAR-QUALIFIED WMCTC PROGRAMS:

PROGRAM

Advanced Manufacturing

Automotive Technology

Carpentry

Collision Repair

Commercial Art

Computer Information Systems

Culinary Arts

Dental Occupations

Diesel Technology

Early Childhood Education

Electrical Occupations

Health Science Technology

HVAC.

Protective Services

Weldina

www.westerncenter.org

all credits by CIP (pronounced "sip") code.

OAR CREDITS **STUDENTS OCCUPATIONALLY & ACADEMICALLY READY**

AT A GLANCE:

COST

REQUIREMENTS

Free (No Tuition or Fees!)

Enroll in a SOARapproved WMCTC Program

Schedule college-prep academic classes at your high school

Maintain a 2.5 GPA in WMCTC Program

Achieve your High School Diploma

Earn a Competent or Advanced score on NOCTI exams

Complete 100% of technical program competencies list at industry proficient level The Pennsylvania Department of Education (PDE) developed and supports the SOAR Program (Students Occupationally and Academically Ready), which helps career and technical education programs lead seamlessly to post-secondary education.

The mission of SOAR is to prepare students for college and careers in an increasingly diverse, high-performing workforce. PDE grants SOAR Programs of Study (POS) approval based in part on the adoption of statewide, industry-aligned competencies and the PA academic standards, instructor certifications and status as High Priority Occupations as defined by the Pennsylvania Department of Labor and Industry. SOAR creates a transfer credit relationship between WMCTC and 42 Pennsylvania colleges (and SUNY). Students who achieve SOAR's challenging academic and technical criteria (listed to the left) by the time they graduate from WMCTC can earn free credits to transfer to college, saving close to one full, free semester of college!

Note: Since requirements include test scores and GPA's, students will not know for certain if they qualify for SOAR credits until May of their senior year. Therefore, SOAR credits should be considered a bonus credit that you may earn if you work hard and achieve, not a guaranteed credit that every student will receive.

PERFECT FOR:

- The academically strong, motivated student.
- The student who knows they want to go to college locally or instate (in Pennsylvania), even if (s)he hasn't chosen a school yet.

C	CIP CODE
	48.0501
	47.0604
	46.0201
	47.0603
	50.0402
	11.0901
	12.0508
	51.0601
	47.0613
	19.0708
	46.0399
	51.0899
	47.0201
	43.9999
	48.0508
d this code?	

Why do I need this code?

The SOAR website, CollegeTransfer.net, will display all credits available to you, but lists

GENERAL WMCTC INFORMATION

Academics

All academic courses with the exception of physical education are scheduled at the sending schools. Please speak to your sending district counselor regarding course selection in combination with WMCTC enrollment.

WMCTC offers an array of support services to help ensure students can pursue employment and continued education or training as a goal after high school. A team of special needs support professionals and paraprofessionals are active throughout the building and are available to provide assistance to students in meeting the requirements of their Program of Study. The team may also develop and implement individual plans to achieve academic success, assist helping a student through emotional and social difficulties, and establish a plan to ease the transition into post-secondary paths such as starting a career, college, or military service. Additionally, they act as important liaison between WMCTC and the students' sending school personnel, thus ensuring students have consistent help and encouragement throughout the school year. Though their main focus is supporting students with special needs, all students can request assistance from this team.

Admissions Policy

Admission to the Western Montgomery Career & Technology Center is based on the following criteria: Academic Achievement, Attendance Record, Student Conduct, *Teacher Recommendations, *Student Essay.

*These items are optional, but highly recommended.

Application Process

Online applications may be completed by visiting **www.westerncenter.org**. The application window is on October 1st each year. The deadline for applications is March 15th. The Bio Medical course requires an interview prior to being accepted into the program.

Attendance Policy

Students must maintain an excellent attendance record in order to develop the skills, knowledge, attitude and behavior necessary to succeed in high school, post-secondary education and employment. Class attendance is a student's obligation and responsibility. Students who abuse the attendance policy may not receive credit for the course of study in which they are enrolled, and may also be denied the opportunity to continue in their career and technical education program the following school year. Failure to attend classes, in any course, may result in failure for the marking period/semester/school year. Excessive tardiness is unacceptable; consequently, students grades may be affected by excessive tardiness.

Career Attire Policy

Students will be required to wear their program's uniform every day. Uniforms must be purchased online. Please visit store.apexadv.com/wmctc/default.aspx for more information.

Career and Technical Education Competency Statement

The National Occupational Competency Testing Institute (NOCTI) student assessments are job readiness exams that measure the skills of an entry-level worker or an individual who has completed coursework in a secondary or post-secondary career and technical program. NOCTI assessments allow student to demonstrate their knowledge, skills and abilities within their chosen occupational program. Assessment reports provide valuable data from program improvement and accountability requirements. Student assessments are developed using business and industry standards and most include multiple choice and performance components.

NOCTI assessments are designed to measure a student's knowledge of basic processes, including the identification and use of terminology and tools. Educators and administrators use the tests to:

- Measure curriculum effectiveness
- Link the world of education with the world of work
- Improve instructional methods
- Enhance the transition between school and work

Students are expected to demonstrate their knowledge at the competent or advanced level. Those who demonstrate their knowledge at the advanced level receive a Pennsylvania Skills Certification, which recognizes career and technical education students who have achieved high skills in their chosen technical area. All students who have successfully completed 50% of their program hours are required to take the NOCTI exam during their graduation year.

*For Metal Technology the National Institute for Metalworking Skills (NIMS) is the assessment utilized as the culminating exam to provide certification.





National Institute for Metalworking Skills®

Cooperative Education Program (Co-op)

Cooperative Education is a structured method of instruction combining school based classroom learning with productive work-based learning in an occupation matching the student-learner's academic and career objective. Acceptance into the program is an honor and privilege. Therefore, students will be considered for this program upon recommendation.

Level 2 juniors in 4th quarter, Level 2 seniors in 2nd semester and Level 3 seniors are eligible for the Cooperative Education Program based on their grades, attendance, and technical instructors' and principal recommendations. A student who has five (5) or more unexcused absences from school or more than ten (10) days excused absences from school may not be eligible for the Cooperative Education Program.

The only exception will be for students who have had an extended illness that has been documented by a physician. In the event of extenuating circumstances, the school administration will consider Cooperative Education placement for the students in this category.

Grading Policy

Students will be graded as follows:

Letter	Number
A	93 - 100
В	85 - 92
С	77 - 84
D	70 - 76
F	0 - 69

Half-Day Career and Technical Education Programs

The Western Montgomery Career & Technology Center offers students a half-day program, whereby, they receive their career and technical education at WMCTC and their academic instruction at their sending district's high school. Graduates receive their high school diploma from their sending school district and a standards certificate from the Western Montgomery Career & Technology Center.

High-Priority Occupations (PA Department of Labor)

High-Priority Occupations are designated by the Department of Labor because they are in a high demand and require advance technical skills. As a result, graduates of these programs are likely to secure a job faster and earn higher-than-average wages. High-priority occupations are updated each year.

Participating School Districts

- Pottsgrove School District
- Spring-Ford School District
- Upper Perkiomen School District

Scholarships

The Western Montgomery Career & Technology Center is proud that students have continually received scholarships from businesses, colleges and universities, community partners, and national organizations.

Standards Certificate

Certificate of Completion

Secondary students who have successfully completed at least two years in a career and technical education program, met appropriate attendance requirements, and who have successfully achieved Competent or Advanced on the NOCTI Exam are eligible to receive a "Certificate of Completion" upon graduation. This certificate may be used to secure employment and/or pursue post-secondary education in a career-related field.

* Students who have earned a Certificate of Completion and have completed 100% of the Task Grid, and 2.5 GPA for their Program of Study will become SOAR eligible for up to 9 credits at participating colleges/universities.

Certificate of Participation

Secondary students who have completed at least one school year in a career and technical education program are eligible to receive a "Certificate of Participation" upon graduation. This certificate may be used to secure employment and/or pursue post-secondary education in a career-related field.

Tech Prep Programs

Tech Prep approval reflects a college track academic and technical curriculum that is validated by agreements with post-secondary institutions. Tech Prep students are expected to take college prep academics. WMCTC offers the following approved Tech Prep programs: Cosmetology, Metal Technology and *Sports Medicine.

*Will become a Program of Study once approved by the PA Department of Education

www.westerncenter.org



WESTERN MONTGOMERY CAREER AND TECHNOLOGY CENTER

What starts here changes your world!

www.westerncenter.org

APPLY TODAY! Contact the WMCTC Admissions team for more information at admissions@westerncenter.org or 610-489-7272

APPLY ONLINE @ wmctc.fluidreview.com

Western Montgomery Career and Technology Center, in accordance with Title IX of the Educational Amendments of 1972, will not discriminate in educational programs which it operates, or in admission or enrollment procedures on the basis of race, religion, sex, color, age, national origin, or handicap and provides equal access to the boy scouts and other designated youth groups. The Western Montgomery Career and Technology Center is an equal opportunity employer and educational institution. We assure that procedures and practices are followed to provide equal access to all programs. Any questions concerning the application of Title IX, compliance or complaints may be referred to Donna Wilson, Compliance Officer, at 77 Graterford Road, Limerick, PA 19468 610-489-7272, ext. 203