

*Making a commitment to life-long learning through Career and Technical Education*

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### ARCHITECTURE & CONSTRUCTION

**CARPENTRY (AR1760)** is a 2-year program that introduces students to basic knowledge of building materials and safe working habits used in residential and commercial construction, such as residential framing of walls and floor systems, windows and doors, and blueprint reading. Credentials: NCCER and OSHA 10 certifications.

**\*TRANSITION MATH\***

**ELECTRICAL TECHNICIAN (AR1760)** is a 2-year program designed to train students in electrical code, motors and the design and function of residential, commercial and industrial electrical systems. This program will introduce students to the National Electric Code. Credentials: WV State Apprentice license, NCCER and OSHA 10 certifications.

**\*TRANSITION MATH\***

**HVAC TECHNICIAN (AR1600)** is a 2-year program with instruction in the installation, maintenance, trouble-shooting and repair of residential and commercial heating, air conditioning and refrigeration systems and equipment. Credentials: Section 608 EPA, NCCER and OSHA 10 certifications.

**\*TRANSITION MATH\***

**BUILDING MAINTENANCE & OPERATIONS (AR1760)** is a 2-year program designed for students who want to explore the fundamentals of many trades. Students will be given the opportunity to learn the basics in masonry, floor and wall systems, trusses and shingling, plumbing, and electrical. Students gain experience through hands-on use of state-of-the-art equipment in constructing buildings while incorporating knowledge and safety skills. Credentials: NCCER and OSHA 10 certifications.

**\*TRANSITION MATH\***

### ARTS/A-V TECHNOLOGY & INFORMATION TECHNOLOGY

**GRAPHIC DESIGN (AR1850)** is a 2-year program for students with an interest in using their creativity for artistic production in marketing, screen printing, publications and advertising. Students will learn the basics of typography, Adobe software, digital design, and desktop publishing. Students will use state-of-the-art equipment and software to create page layouts, computer graphics and illustrations. Graphic Design is structured to offer students a vast skill set for many entry-level positions in Marketing, Industrial Design, Web Design, Medical Illustration and Computer Animation.

**\*FINE ART\***

### ARTS/A-V & IT TECH. CONT'D

**CODING, APPS & GAME DESIGN (IT1442)** is a 1-year program that allows students the opportunity to build and design their own game in 2D and 3D. Students will learn basic programming fundamentals of a software life cycle. Programming languages such as, Java, JavaScript, and Python will be used as well as numerous digital tools and software packages. Students will create and publish their own app and webpage.

### HOSPITALITY & TOURISM

#### PRO-START RESTAURANT MANAGEMENT

**(HH1010)** is a nationwide, 2-year program that unites classroom and industry to develop the best and brightest talent into tomorrow's restaurant and food-service leaders. From culinary techniques to management skills, ProStart's industry-driven curriculum provides real-life experience and builds practical skills and a foundation that will last a lifetime. Credentials: ProStart National Certificate of Achievement, ServSafe, Food Handlers, WV Welcome, HP E-Life certifications

### HUMAN SERVICES

#### EARLY CHILDHOOD EDUCATION (HU1010)

is a 1-year program, offered in the morning, that provides students with the opportunity to learn about physical, social, emotional and mental development of children through the classroom and internship at MTEC. College credits can be earned at Pierpont Community & Technical College. Credential: Hours completed toward Classroom Teaching Assistant Certificate.

### EDUCATION

**CAREERS IN EDUCATION (ED1300)** is a 1-year program designed to attract talented students to the teaching profession. This afternoon program offers classroom learning relative to elementary-age children. Students complete an internship off-campus in an elementary or middle school environment. College credits can be earned at Fairmont State University.

**\*TRANSITION ENGLISH\* (BOTH PROGRAMS)**

### LAW, PUBLIC SAFETY & CORRECTIONS

**LAW & PUBLIC SAFETY (LA1020)** is a 2-year program focusing on knowledge and skills needed to be successful in the fields of law enforcement, corrections, the court system, private security and protection. Students will acquire a solid foundation and application of constitutional, criminal, civil and case law. They will investigate mock crime scenes, photograph and collect evidence, identify and collect latent finger prints, learn the mechanics of arrest and how to identify various firearms, edged weapons, blunt force weapons, chemical deterrents and Tasers. Credentials: CPR/First Aid, Telecommunications and FEMA.

**\*TRANSITION ENGLISH\***

### MANUFACTURING

**WELDING (MA1980)** is a 2-year program that provides training in the areas of shielded metal arc, gas metal arc, gas tungsten and thermal cutting including CNC plasma as well as blueprint reading, metallurgy, fabrications, welding symbols and shop-related equipment. Credentials: American Welding Society certifications on plate and pipe in addition to bend testing for SMAW and GMAW for bridge/critical structure welding, NCCER and OSHA 10 certifications.

**\*TRANSITION MATH\* FINE ART\***

### SCIENCE, TECH, ENGINEERING & MATH

#### ENERGY, POWER & ENGINEERED SYSTEMS

**(ST2175)** is a 2-year curriculum that introduces students to the many career and educational opportunities in the energy and power industry. Students will research, design and build hands-on projects to understand the generation, distribution and use of energy. Students use the National Instruments LabVIEW software to test their designs. Credentials: N1 Certified LabVIEW Associate Developer (CLAD).

**\*TRANSITION MATH & SCIENCE\***

### AUTOMOTIVE TECHNOLOGY

**AUTOMOTIVE TECHNOLOGY (TR162U)** is a 2-year program designed to prepare students to work as entry-level service technicians in the automotive and related mechanical industries. In addition to engine concepts and performance, instruction includes brakes, suspension and steering, electrical systems and heating/air conditioning. Students are acquainted with alternative fuels. Credential: Automotive Lift Certification (Automotive Equipment Training Institute). Completion of Automotive Technology program satisfies 1 year of required 2 years' experience for ASE certification.

**\*TRANSITION MATH \***

BY 2020  
**60%**  
 OF CAREERS  
 WILL REQUIRE  
 TECHNICAL SKILLS,  
 ASSOCIATE DEGREES AND/OR  
 INDUSTRY  
 CREDENTIALS



## HEALTH OCCUPATIONS

**MEDICAL ASSISTANT/PRE NURSING (HE0730)** is a 2-year program that provides classroom/lab instruction as well as clinical internships at a local medical office. Students learn to function as members of the health care team and perform administrative and clinical procedures that include: scheduling appointments and patient tests and procedures, maintaining patient records, preparing and administering injections, vaccinations, phlebotomy, obtaining vital signs and patient histories, and performing diagnostics tests such as EKG's. Credentials: Registered Medical Assistant (RMA), CPR/First Aid.

**\*TRANSITION ENGLISH\***

**ALLIED HEALTH SCIENCES DENTAL ASSISTANT (HE0715)** consists of 2-years of classroom/lab instruction and a clinical internship in a local dental office. Students acquire satisfactory skills and demonstrate competence in a variety of dental office procedures/ laboratory techniques, which include preliminary examinations, assisting chair-side dentistry, charting, appointment scheduling, maintaining patient records, radiation and health safety and infection control. Credentials: Registered Dental Assistant (RDA), CPR/First Aid.

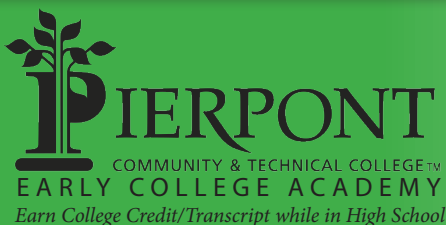
**\*TRANSITION ENGLISH\***

**ALLIED HEALTH SCIENCES PHARMACY TECH (HE0715)** is a 2-year program providing a professional curriculum that is delivered per classroom instruction, web-based modules, WVU School of Pharmacy laboratory and clinical experience in local pharmacy. This course includes certification requirements specializing in pharmacy law, medical/pharmacy terminology, pharmacology, pharmacy math, pharmacy operations, and medication distribution inventory. This is a program designed for students who want to advance their educational pathway in the fields of pharmacy and nursing. Credentials: Pharmacy Technician Certification Board (PTCB), CPR/First Aid/Blood Borne Pathogens.

**\*TRANSITION ENGLISH\***

### \*EMBEDDED MATH & ENGLISH CREDITS\*

Students enrolled their junior and senior year will have the opportunity to earn the Transition English or Transition Math credits as designated with each program.

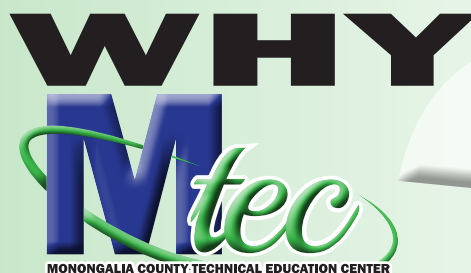


## ADULT HEALTH OCCUPATIONS

**MEDICAL ASSISTANT** This 9-month (Aug - May) adult program is designed to train individuals to become multi-skilled allied health professionals. Practitioners work in physician offices or clinics and perform both administrative and clinical duties. The program consists of classroom/lab instruction, as well as a clinical internship in a medical office. Upon completion of this program, students will be eligible to sit for the (AMT) American Medical Technologists exam and become Registered Medical Assistants. In addition, students will attain advance standing applied to the PN program.

**PRACTICAL NURSING** The West Virginia State Board of Examiners for Licensed Practical Nurses has granted full accreditation for this 12-month (Aug-Aug) adult program. The program provides professional curriculum via classroom and clinical instruction. The Licensed Practical Nurse performs direct nursing care to clients, administers medications and therapeutic treatments under the direct supervision of registered nurses or physicians. Passing the NCLEX national exam is required to work as a licensed practical nurse. Pass rate for MTEC is 95% to 100% annually.

**SURGICAL TECHNOLOGY/STERILE PROCESSING** This 9-month (Aug-May) adult program prepares a beginning technologist in the skills which are necessary to assist medical and nursing personnel in operating rooms, surgery clinics and sterile processing facilities/areas. Upon completion of this program, students are eligible to sit for the National Certification Examination for Surgical Technologists (CST) and a second certification (CRCST) for Certified Registered Central Service Technicians.



Monongalia County Technical Center combines rigorous academic and technical content with the opportunity to earn industry credentials and early college credits. Programs at MTEC start with a specific career focus and then provide students with preparation for careers in specific fields or to continue advanced study in post-secondary education.

Programs partner with employers to design and provide high quality instruction. Today's cutting edge, relevant career and technical education prepares youth and adults for a wide range of careers.

**•NCCER Certifications •OSHA Certifications •WV Simulated Workplace Training  
 •EDGE College Credits • Early College Academy College Credits  
 \*EMBEDDED MATH & ENGLISH CREDITS\***