

Pittsylvania Career and Technical Center Programs

2020-2021



Automation & Robotics-1 Year Program (3 credits) - This course provides instruction in programming robots used in assembly and manufacturing settings. Students will work with various power systems while acquiring machining, welding, and system engineering skills. This course leads to industry certification options, including the general industry OSHA 10 card, to further validate their mastery of related skills. This course provides a depth of the basic skills required in today's automated manufacturing environment. Students will explore careers, build circuits, and use principles of physics to analyze basic electronic and robotic components. ***Dual Enrollment-DCC (19 College Credits)**



Automotive Technology - 2 Year Program (6 credits) - Students will learn to use state-of-the-art equipment in the diagnosis and repair of automobiles, while preparing for ASE Certification. ***Dual Enrollment – DCC (13 College Credits)** / **Industry Credential: ASE – Engine Repair, Automatic Transmissions, Manual Drive Train, Suspension & Steering, Brakes, Electrical Systems, Heating & Air Conditioning, and Engine Performance.



Auto Body Technology - 1 Year Program (3 credits) - Students will learn to refinish vehicles and restore older ones that may have been damaged due to age or collision. You will also learn the art of custom painting. ****Industry Credential: ASE – Auto & Paint Refinishing and/or Auto Collision Repair.**



Computer Network Hardware Operations/Cybersecurity - 1 Year Program (3 credits) - Students will develop skills needed to obtain entry-level network technician, computer technician, cable installers, and help desk technician positions. They will also explore the various types of cybersecurity threats, how to mitigate those threats, and discover methods of extracting information from different types of technology. ***Dual Enrollment – DCC (8 College Credits)** / **Industry Credential: CISCO Certified Network Administrator, CompTIA Network +, Microsoft Technology Associate Networking Fundamentals.



Cybersecurity Technology Systems - 1 Year Program (3 credits) - Students enter the world of computer technology and gain practical experience in assembling a computer system, installing an operating system, troubleshooting computers and peripherals, and using system tools and diagnostic software. They develop skills in computer networking and resource sharing. ***Dual Enrollment – DCC (9 College Credits)** / **Industry Credential: CompTIA - A+ Certification, IT Fundamentals, Microsoft Technology Associate – Windows Operating System Fundamentals, Security Fundamentals, Networking Fundamentals.

*If a student takes and passes both courses they can earn their Career Studies Certificate from Danville Community College.



Cosmetology - 2 Year Program (6 credits) – This program provides theory & hands-on training in all phases of the cosmetology profession. Upon satisfactory completion of this program, you will be prepared and required to take the State exam to become a licensed cosmetologist. ***Dual Enrollment – DCC (29 College Credits)** / **Industry Credential: Virginia State Board of Cosmetology Licensure Exam. **Upon completion students receive: DCC - Cosmetology Career Studies Certificate.**



Criminal Justice - Law Enforcement - 1 Year Program (3 credits) – Students learn the theory, principles and techniques of developing, administering and managing services for the safety and protection of people and property. Students will have the essential foundation to continue their education or training in the criminal justice field. ***Dual Enrollment – DCC (6 College Credits)** / **Industry Credential: NOCTI – Criminal Justice.



Criminal Justice - Crisis Intervention Specialization - 1 Year Program (3 credits) – Students learn the theory, principles and techniques of developing, administering and managing services for the safety and protection of people and property. Students will learn about the entire criminal justice system, with an emphasis on crisis intervention of special crime victims within the system. Students will have an essential foundation to continue their training or education in the criminal justice field. ***Dual Enrollment – DCC (6 College Credits)** / ** Industry Credential: NOCTI – Criminal Justice.



Culinary Arts - 1 Year Program (3 credits) – Students will experience the industry first hand by learning basic food preparation and presentation principles. Gain “real-world” experience by catering events around Pittsylvania County! ****Industry Credential: ServSafe Manager Examination, ProStart Level 1 & 2.**



Electricity - 1 Year Program (3 credits) – This program will provide students with a solid background of electrical practices and principles as well as an understanding of the National Electrical Code requirements. This course will prepare students with industrial safety concepts and practices, industrial methods and tools used, basic wiring practices, AC/DC circuits, mechatronics, and college success skills. ***Dual Enrollment – DCC (21 College Credits)** / **Industry Credential: OSHA 10



EMT - 1 Year Program (3 credits) – In this program, students will be learning about the exciting field of public safety, including working closely with the area fire and rescue squad departments. Students will be trained in areas such as public safety, CPR, first aid, emergency techniques, and emergency management, while making a difference in their community. ***Dual Enrollment – DCC (9 College Credits)** / ****Industry Credential:** Virginia State Board of EMS – EMT Exam.



Heating, Ventilation, Air Conditioning and Refrigeration – HVAC - 1 Year Program (3 credits) – In this program students are taught to professionally install, repair, and maintain the operating conditions of heating, air conditioning, and refrigeration systems. Students work with piping and tubing, study the principles of heat and electricity, install duct systems, and comply with EPA regulations. ***Dual Enrollment DCC (14 College Credits)** / ****Industry Credential:** NOCTI HVAC Maintenance Technology, OSHA 10, ESCO- EPA 608 CFC Certifications.



Horticulture Science – 1 Year Program (3 credits) – In this program students apply scientific principles to the field of horticulture, including the areas of floriculture, landscape design, greenhouse operation, nursery and plant production, and turf management. ****Industry Credential-Certified Commercial Pesticide Applicator Exam**



Industrial Technician – Mechanical - 1 Year Program (3 credits) – This program will prepare students with industrial safety concepts and practices, industrial methods and tool use, practical industrial maintenance, mechanical practices, and college success skills. Students are taught safety and precision measurement skills and gain hands-on, practical experience in mechanical fundamentals, technical drawing, and welding. ***Dual Enrollment DCC (15 College Credits)** / ****Industry Credential:** NOCTI-Industrial Maintenance Mechanic Test, OSHA 10,



Nursing Assistant – 1 Year Program (3 credits) - Jump-start your career in the Health fields by taking this class. You can explore a variety of Health careers. This course covers body systems and basic health needs which prepares students seeking a CNA license. ***Dual Enrollment DCC (9 College Credits)** / ****Industry Credential:** Virginia State Board of Nursing – “CNA” Exam. **Upon completion students receive: DCC - Nurse Aide Career Studies Certificate.**



Precision Machining Technology - 2 Year Program (6 credits) - Students learn the basics of industrial safety and environmental protection; planning, management and performance of machining jobs; quality control; general maintenance; engineering drawings and sketches; and application of measurements, metalworking theory, properties of materials and principles of CNC. ***Dual Enrollment - DCC – (37 college credits)** / **** Industry Credential:** NIMS-Measurement, Materials, & Safety Skills, Level I and NIMS-CNC Turning Operations, Level I.



Small Animal Care / Veterinary Science – 1 Year Program (3 credits) - This program is an introductory course in the field of Veterinary Medicine. Students will explore various careers in Veterinary Science and learn specific skills as a veterinary assistant. This class teaches both smaller and some larger animal health care and how to assist the veterinarian with routine examinations, pet handling, feeding, and grooming. ****Industry Credential:** NOCTI- Small Animal Science and Technology Assessment.



Teachers for Tomorrow- 1 Year Program (3 credits) - This is an advanced level program designed to introduce students to a career in teaching and education. The primary focus of the curriculum is the learner, the school, and the teacher and teaching. The components are intentionally broad to allow for numerous career options. ***Dual Enrollment - DCC (16 college credits)** / ****Industry Credential:** Praxis, Math Examination, ParaPro Assessment.



Welding – 2 Year Program (6 credits) - In this class, you will learn layout, cutting, drilling, and welding techniques by completing hands-on projects. Students can work toward Welder Certification. ***Dual Enrollment – DCC (26 College Credits)** / ****Industry Credential:** NCCER – Core Curriculum & Welding Level 1.

❖ *ALL students interested in Pittsylvania Career and Technical Center programs must complete the **PCTC Application** process and meet program enrollment criteria prior to acceptance into the programs. **Admissions are competitive** and students are evaluated according to the PCTC Admissions Criteria Matrix which includes the following: GPA, Attendance, Discipline, Reading Level, Writing Sample, Application, Recommended pre/requisite courses, and DCC-Placement Testing for Dual Enrollment Courses.*

❖ *All Pittsylvania County students must obtain a **Virginia Approved Industry Credential** to meet GRADUATION REQUIREMENTS.*

For Additional Information:

Contact the Pittsylvania Career and Technical Center at 434-432-9416.

“Pittsylvania County Schools do not discriminate on the basis of gender, age, color, religion, qualified disabling condition, or national origin in employment or in its educational programs and activities.”
“Extending Excellence, Expanding Opportunity”