

Current Programs and Instructors

2-Year Programs (Grades 11 & 12)

Carpentry – 46.0201	Dan Douglas
Electrical Occupations – 46.0399.....	Bill Chernicky
Health Occupations – 51.0899.....	Cindy Saulsbery

3-Year Programs (Grades 10, 11 & 12)

Auto Collision Technology – 47.0603.....	John Fuller
Automotive Technology – 47.0604.....	Domenic DiMucci
Computer & Information Sciences – 15.1202.....	Michele Hunter
Cosmetology – 12.0401	Kristen Deets
Culinary Arts & Restaurant Management – 12.0508.....	Tim Brown
Diesel Technology – 47.0613	Nick Shearer
Drafting & Design Technology – 15.1301	John Brown
Electronics Technology – 15.0303	Rob Kightlinger
Heating, Ventilation & Air Conditioning Technology – 47.0201.....	Daniel Mealy
Precision Machining – 48.0501.....	James Hillwig
Veterinary Sciences – 01.8301.....	Lindsay Graff
Welding – 48.0508	Brad Custead
Welding – Valley – 48.0508	Evan Moutsos

1-Year Programs (Grade 12 only)

Cooperative Education – Diversified Occupations – 32.0105	Bonnie Stein
Cooperative Education – Capstone Co-op.....	Bonnie Stein
Cooperative Education – Diversified Occupations – 32.0105	Tina Cutshall-Craft
Cooperative Education – Capstone Co-op.....	Tina Cutshall-Craft

Program Descriptions

Auto Collision Technology - 47.0603 (Grades 10, 11 & 12)

The Auto Collision course includes instruction in the removal of dents, repair of rusted or damaged panels, replacement and installation of parts and accessories, preparation and refinishing of spot repairs, complete auto painting and refinishing, and straightening of frame structures. Additional learning experiences are provided in using small hand tools, specialized equipment including the most modern tools used in the collision trade, and estimating the cost of repairs.

Automotive Technology - 47.0604 (Grades 10, 11 & 12)

This course provides practical instruction in the diagnosis, repair and adjustments of problems related to gasoline-powered motor vehicles. The mechanic must determine what tools and parts are necessary to repair the car, estimate the cost of repairs, and discuss the entire situation with the customer. Areas of study include: transmissions, hydraulic brake systems, electrical and cooling systems, motor tune-up and front end alignments.

Carpentry - 46.0201 (Grades 11 & 12)

The curriculum will deal with the erection and installation of buildings and other structures using assorted materials such as metal, wood, glass, concrete, or composition substances. Instruction is provided in the basic skills of carpentry, masonry, and a variety of activities associated with building construction. These include: cost estimating, cutting, fitting, fastening, and finishing various materials. Students will use a variety of hand powered tools; learn blueprint reading and follow technical properties of materials.

Computer & Information Science - 15.1202 (Grades 10, 11 & 12)

This program concentrates on studies required to achieve the 2 year and 1 year certifications. The student becomes skilled at computer maintenance and repair, and network fundamentals. The CompTIA, IT Fundamentals and A+ certifications are the industry standard for computer support technicians. These certifications prove competence in areas such as installation, preventative maintenance, networking, security and troubleshooting. Information technology, even in a tough economy, is a rapidly growing and necessary field. Students who achieve their CompTIA certifications means increased job security, additional career opportunities and increased credibility in the workplace.

Cosmetology - 12.0401 (Grades 10, 11 & 12)

The Cosmetology course provides students the training required to become state licensed Cosmetologists. In the exciting world of style and fashion, the Cosmetology classroom is on the “cutting edge.” Classroom instruction and clinical experience provide the training needed to perform skills used in today’s ever-changing industry. Upon completion of this 1250 required-hour course, the student is prepared to take the state examination for a Cosmetologist license in Pennsylvania. Employment opportunities are limitless as cosmetologists; this license enables cosmetologists to work in any salon, be make-up artists, wedding and event stylists, product educators, sales representatives, color specialists, artistic directors, a business owner or many other opportunities.

Culinary Arts & Restaurant Management - 12.0508 (Grades 10, 11 & 12)

The Culinary Arts & Restaurant Management course provides theory and practice for food preparation and service required for success in the food service industry. Students learn how to operate and care for kitchen equipment, prepare and serve food, plan menus and a variety of skills required to operate and maintain a restaurant. Students practice their serving techniques at the on-site restaurant. Participants have the opportunity to achieve multiple national certifications.

Diesel Technology - 47.0613 (Grades 10, 11 & 12)

The Diesel Technology course prepares students for the future by including the study of small engine technology along with the training in diesel service and maintenance. The course offers training in all areas of mechanics including diagnosis, overhaul and maintenance for automotive, agricultural, trucking and recreational vehicles. Students are able to train, test and qualify for the PA State Inspection License. All this adds up to an exciting and valuable training opportunity for the future mechanical technician.

Drafting & Design Technology - 15.1301 (Grades 10, 11 & 12)

The Drafting & Design Technology/CADD class is devoted to training students for college engineering programs and the work force. This course will provide a broad and thorough knowledge of the principle methods by which draftspersons, engineers, technicians and designers in the field express ideas to the crafts persons who fabricate the item used in everyday life. Work in this course will give the student an opportunity to develop the necessary technical skills in the use of 2D CADD software, 3D solid modeling, and 3D printing used to produce electronic files and rapid prototypes. Emphasis is placed upon acquiring the necessary technical knowledge to be able to orally, graphically, mathematically, and scientifically translate the idea of the engineer, technician, and tradesperson into a practical graphic language. The course stresses the relationship between theory and practice through the application of principles that provide entry level skills and "hands-on" experiences on computer aided drafting systems. Areas of specialization include mechanical, architectural, and civil drafting as well as technical illustration.

Electrical Occupations - 46.0399 (Grades 11 & 12)

The Electrical Occupations course includes training in layout, assembly, installation, and testing of wiring and devices used in heating, lighting, power, motor control and other electrical systems at residences, factories, commercial, and other buildings. Classroom work includes electrical theory, diagram and blueprint reading, estimating for electrical repair and building wiring, and electrical and occupational safety, health act code requirements. Students will work in the shop to perform house wiring, motor, and motor control projects.

Electronics Technology - 15.0303 (Grades 10, 11 & 12)

The Electronics Technology Course is designed to give students a working knowledge of Basic Electricity and Electronics, Analog Electronics and Digital Electronics. The knowledge gained through this course prepares the student for an entry level position in the field. It is an excellent preparatory for post-secondary education where the student can earn an Associate's Degree or Engineering Degree from a number of institutions of higher learning. Some regional post-secondary technical schools and colleges have articulation agreements with the Career and Technical Center. This provides opportunities for the student to earn credit towards college courses while still in high school. Electronics continues to be a high-demand field in most of the country.

Graduates of this program are currently employed in several sectors of the industry including communications, avionics, telecommunications, biomedical engineering, industrial controls and maintenance, various manufacturing sectors, education and more.

All branches of the armed services offer tremendous opportunities to graduates of the Electronics Technology course in a myriad of fields. Graduates from the program have or are currently serving in all branches as communications specialists, intelligence and counter-intelligence specialists, electronics technician, guidance technicians, the Navy Nuclear Power Program technicians and more.

Health Occupations - 51.0899 (Grades 11 & 12)

The Health Occupations course introduces students to varied aspects of the Health Care profession. The first year students are introduced to basic anatomy, physiology, medical terminology, and hands-on training of 61 beginning health care skills. Students spend time researching medical careers as well. The second year of the course deals with health care information related to direct care of the sick, disabled, or infirm. The training is applicable toward certification as a Nurse's Aide. Students will earn OSHA-10 Healthcare Industry Certification as well. Students will be provided a clinical experience as part of their training.

Heating, Ventilation, & Air Conditioning Technology - 47.0201 (Grades 10, 11 & 12)

The Heating, Ventilation, & Air Conditioning (HVAC) Technology program will prepare students to apply technical knowledge and skills to repair, install, service and maintain the operating condition of heating, air conditioning, and refrigeration systems. The program will have a solid educational base on which to build a post-secondary degree or advanced certifications. This program will require a high aptitude in mathematics and problem solving.

Precision Machining - 48.0501 (Grades 10, 11 & 12)

The Precision Machining curriculum is designed to provide entry level instruction in setting up and operating industrial type machinery. A machinist is a skilled worker who, working from blueprints and written/verbal specifications, can operate all kinds of machine tools to cut, drill, grind, or otherwise shape and size material with an extremely high degree of accuracy to make the part from the print.

Machinists and toolmakers are skilled workers who provide tools and special guiding and holding devices that are used to mass-produce a variety of machined parts. Using basic manual machines, advanced CNC machine tools, and precision measuring instruments, students work with the metals and alloys commonly used in manufacturing and hold tolerances acceptable in industry.

In this course the student will develop a basic knowledge of machine operation, standard shop practices, blueprint reading, metal processes, heat treating and related mathematics. All machines and instruments are commonly used in industry. One hour of related theory will be provided for every six hours in the shop. The students practice their skills by making precision tools which they get to keep and use in their career in the machining industry.

Veterinary Sciences - 01.8301 (Grades 10, 11 & 12)

The Veterinary Sciences Program will prepare individuals, under the supervision of veterinarians, laboratory animal specialists, and zoological professionals, to provide patient management, care, clinical procedure assistance, and owner communication. Students will receive training to enter entry level positions, as well as a solid educational base on which to build a post-secondary degree.

Welding - 48.0508 (Grades 10, 11 & 12)

Welding is the process of joining pieces of metal by applying intense heat to melt or fuse the metal with the use of an electric arc or gas flame. It is the most common method of permanently connecting various metal parts that go into the construction of automobiles, spacecraft, ships, household appliances, and steel reinforcing rods in bridges, buildings, and roads. Students in the welding technology course will learn gas, arc, TIG, MIG, fluxcore, and pipe welding in accordance with the American Welding Society and the American standard of testing material specification, passing all-position guide bend tests. This will qualify the student as an all-position welder. The welding student will also learn blueprint reading, welder's math for fabrication, fabrication, and arc- air cutting process. Safety is stressed in all areas of welding.

Diversified Occupations (Co-op) - 32.0105 (Grade 12)

Diversified Occupations is a planned vocational program which is offered at Crawford Tech. The program prepares a diverse group of students for more than one vocational education area of instruction for gainful employment. The program is a direct relationship/partnership between a local business/industry and the Crawford County Career & Technical Center. Employers sign a training agreement with Crawford Tech to supervise and train the student. Grades are based on employer evaluations of the student's work performance and weekly scheduled co-op classes at Crawford Tech. The class covers business topics including career planning, job seeking skills, job survival skills, management, taxes, social security, insurance, banking, starting a business, and safety. Students receive a certificate from the Crawford County Career & Technical Center.

Capstone Co-op (Grade 12)

Capstone Co-op is open to current Crawford Tech seniors with a job related to the occupational field in which the student is currently studying at the Crawford County Career & Technical Center. The student must have completed the basic skill competency training in their shop area and continue training in that field on the job. The student must be recommended by their instructor and have acceptable conduct and classroom grades. Students attend their sending school for half of the day to complete academic requirements for graduation and spend the other half of the day on the job at school approved work sites. Employers sign a training agreement with the Crawford County Career & Technical Center to supervise and train the student. Grades are based on employer evaluations of the student's work performance and weekly scheduled co-op classes at Crawford Tech. The class covers business topics including career planning, job seeking skills, job survival skills, management, taxes, social security, insurance, banking, starting a business, and safety. Students receive a certificate from the Crawford County Career & Technical Center in both their shop area and Capstone Co-op.