

**ERIE COUNTY VOCATIONAL SCHOOL OFFERINGS**  
**GRADES TEN THROUGH TWELVE -1st yr Y-900/2nd Y-901/3rd Y-902**

The following technologies are offered at the Erie County Vocational Technical School:

**AUTO BODY REPAIR** - This course teaches basic skills in identification and analysis of damage, straightening techniques, structural panel repair, suspension and steering systems, trim and glass installation, and welding techniques for automobiles.

**AUTOMOTIVE TECHNOLOGIES** - This course teaches basic engine design, carburetion, electrical and fuel systems, clutches, transmissions, front-end alignment, use of diagnostic testing equipment, and safety practices.

**CONSTRUCTION TRADES** - This course gives the student the opportunity to experience two major areas of construction: carpentry and masonry. Carpentry includes theory, hand and power tool use, building concepts, lumber grading and identification, blueprint and layout work, construction-related math, and safety practices. Masonry includes hands-on experience working with brick, block, stone, tile, and a variety of other "trowel trade" methods. The use of masonry saw, mortar mixers, hydraulic block and brick cutters is also taught.

**COMMERCIAL ART** - Students acquire skills in technical illustration, design composition, media and trade information, photography, and basic drawing techniques in commercial art.

**COMPUTER PROGRAMMING** - Students learn word processing, spreadsheets, and data bases. Advanced students learn how to create, compile, debug and run computer programs. Languages used are Cobol, Fortran, Basic, and Pascal.

**COSMETOLOGY** - After completing 1,250 hours of instruction in facials, manicuring, permanent waving, coloring, physiology and business procedures, students may take an examination to receive a state license as a cosmetologist.

**ELECTRICAL ENGINEERING** - This course teaches residential and industrial wiring methods and materials, electric motors and controls, appliance repair, hydraulics and industrial electronics.

**ELECTRONICS** - This course includes extensive theory in basic electricity (AC and DC), solid state electronics, printed circuit boards, PCB manufacture and repair, digital electronics, microprocessors, computer interfacing and robotics.

**CULINARY ARTS** - This course trains students for the service industry in hotels, restaurants, cafeterias and hospitals. Specific instruction is given in cooking, baking, health and sanitation laws, and restaurant management techniques.

**GRAPHIC COMMUNICATIONS** - Graphics concentrates on the two aspects of the graphic art field: pre-press operations and offset printing. Training is conducted in office procedures, printing theory and modern equipment operation including among others, typing, bookkeeping, and computer operations. Printing press and photography skills as well as layout, pre-press stripping and bindery influences are gained by students enrolling in this course. Instruction in computer graphics and word processing systems is provided.

**HEALTH ASSISTANT** - This course has nursing and medical assistant instruction in body structure and functions, personal hygiene, nursing procedures and methods of physician and laboratory assistance. A clinical experience under the supervision of a registered nurse is included.

**TOOL AND DIE** - This course includes use of hand tools in benchwork, machine operations and

set-up of lathes, milling machines, surface grinders, drill presses and vertical and horizontal band saws. After successful completion of the first year, students advance to the tool and die area.

**FACILITY ENGINEERING** - Preparation for careers in the maintenance of industries, hospitals, schools and restaurants is taught. Instruction includes electricity, carpentry, plumbing, welding and brazing, hydraulics, masonry, sheet metal, small engine repair and basic machine shop equipment.

**METAL FABRICATION** - This course teaches the use of MIG and TIG welding, oxyacetylene welding and burning and hand/power tools.

**DRAFTING AND DESIGN** -This course teaches lettering, freehand sketching, orthographic drawing, and introduction to computer aided drafting. Second year students learn auxiliary projections, chart and graph design, screw threads and fasteners and computer-aided drafting and plotting. Second year students may choose basic architectural drafting or mechanical design to be completed during the third year.

**CHILD CARE SERVICES** - The Child Care Program is designed to provide the high school student with the skills necessary for entry-level employment in the child care field and to prepare the student to pursue advanced study in the field of child care. In this program, students will study child development curriculum for infants, toddlers, and young children; management techniques; health and safety; nutrition; the history and theory of early childhood education; and working with special-needs children.

**SENIOR ONLY PROGRAMS (1 year)**

[See Guidance for information]

- **CISCO Networking**
- **Hospitality Management**
- **Plastics Technology**

**NOTE:** Senior vocational students usually have the opportunity to participate in a cooperative educational program by working in area industries or businesses.

**STUDENT ORGANIZATIONS**

Students enrolled in the Erie County Technical School are encouraged to participate in student organizations:

**VICA** - Vocational Industrial Clubs of America is a world-wide organization for vocational students.

**STUDENT COUNCIL** - This organization affords the student the opportunity to act as liaison between students, faculty, and administration.

**SPECIAL NEEDS** - Students who have been identified as having special needs are offered support and assistance while they attend the Erie County Vocational Technical School.

**NOTE:** Vocational school students must meet with counselors to determine scheduling requirements.