

INDIAN VALLEY VOCATIONAL CENTER is owned and operated by 11 school districts:

Earlville District #9  
Hinckley-Big Rock District #429  
Indian Creek District #425  
Leland District #1  
Newark District #18  
Paw Paw District #271  
Plano District #88  
Sandwich District #430  
Serena District #2  
Somonauk District #432  
Yorkville District #115

Students from these districts attend IVVC during their junior and senior years in the morning or afternoon. Students who attend IVVC are selected by their own district's criteria for attendance at IVVC.

#### NOTICE OF NON-DISCRIMINATION

Indian Valley Vocational Center insures equal educational opportunities are offered to students regardless of race, color, national origin, age, sex, religion, or disability.

Questions in reference to educational opportunities may be directed to:

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Indian Valley Vocational Center

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Indian Valley Vocational Center



2012— 2013  
Over 35 years of Excellence  
Educating for  
Careers Since 1975

## IVVC Program Listing

### AUTO BODY REPAIR

A comprehensive program of collision repair and automotive paint refinishing. Safety practices and safety equipment, as well as EPA standards, will also be addressed and followed. First year students will get a basic knowledge of collision repair and refinishing procedures. Second year students will get advanced training on frame and structural repair. (20116A001 & 002)

### AUTOMOTIVE TECHNOLOGY

All students study routine automotive repair and maintenance fundamentals. This is accomplished by textbook study, lecture and homework before practical experience in the shop. Safety practices and industry standards will be stressed. Second year students will continue by learning more advanced techniques and diagnostic procedures through weekly textbook and homework assignments, and hands-on shop experience. (20104A001 & 002)

### BUILDING TRADES

This program offers a 95% hands-on experience in most phases of residential construction. Once all safety procedures have been completed, students will be briefed on current building codes, span charts, blueprint reading, and estimating/scheduling. Aside from an occasional chapter/lesson plan related to the phase of project we are in, the students will spend the remainder of the year at our off-campus jobsite, constructing a house or other project. Areas of study will include concrete, carpentry framing, roofing, siding and exterior trim, plumbing, HVAC, drywall and interior trim. In addition to using conventional lumber and understanding all its characteristics, they will also learn about and/or use composite materials and engineered lumber. Second year students are given the opportunity to obtain an internship, possibly receiving wages from an employer while gaining experience in a trade of choice that pertains to construction. (17002A001 & 002)

### COMPUTER TECHNOLOGY

State of the art program in computer maintenance and installation. Students work with hardware and software in a "real world" environment to maintain PCs and printers at IVVC. They also do maintenance work for other schools. New computer setup, purchase and evaluation is also a part of the course. Second year students explore wire and wireless networks. A+ Certification is possible after the first year. (10252A001 & 002)

### COSMETOLOGY

This is a 1,500 hour program contracted through Hair Professionals Career College, offered at their Oswego or Sycamore site or Debutantes School of Cosmetology & Nail Technology in DeKalb. Completers will have earned up to 1,000 hours towards the state licensing requirements for hairdressers during the two year program. (19101A001 & 002)

### CULINARY ARTS

Developed by the National Restaurant Association Educational Foundation, the ProStart Program is a two-year curriculum designed to teach high school students the management skills needed for a career in the restaurant and food service industry. ProStart students have the opportunity to earn an industry-approved, nationally recognized certificate, guaranteeing them a minimum \$2,000 scholarship and access to college articulation agreements. To earn the ProStart certification, students must complete the following program components: 360 hours of classroom instruction, covering hospitality business and food preparation; 400 hours of mentored internship, in front and back of house positions; workplace competency checklist, demonstrating industry knowledge and skills; successfully pass the year one and two national ProStart examination. (16052A001 & 16055A001)

### DRAFTING & DESIGN

Look around. Most everything you see—from the cell phone you use to the car you drive to the buildings you walk through—has to be designed. Design is an important step in the process from idea to reality, and students in this class learn to use creativity, problem solving, and technical skill to make that step happen. Students will experience hands-on projects in the fields of architecture, engineering, interior design, product design, mechanical design, computer-aided drafting (CAD) and surveying/civil engineering. First semester, students will gain experience and knowledge in the design areas mentioned above, and second semester each student will choose one or two of those areas for more in depth study. Some of our popular hands-on projects include popsicle stick bridges, H<sub>2</sub>O rockets, marble roller coasters, CO<sub>2</sub> dragsters, and Mythbuster Mondays. Similar to the popular TV show, Mythbuster Mondays give students a chance to brainstorm, build, and test ideas. First year students learn the fundamentals on the drafting board and progress to beginning computer-aided drafting (CAD). Second year students learn advanced CAD. Completion of the course provides the possibility of up to 11 semester hours of credit at Waubesa Community College. (21103A001 & 002)

## **EARLY CHILDHOOD DEVELOPMENT**

The Early Childhood Development program offers a comprehensive study of child development. This class offers students hands-on experiences teaching 3, 4 and 5 year old children in the Carole V. Nolin preschool lab. Students will have the opportunity to explore career opportunities and to utilize college articulation agreements. First year students gain knowledge through theory and observation, learning to guide young children in their behavior and development. Second year students will have the opportunity to evaluate and meet the needs of specific children through in-depth curriculum planning and implementation. Second year students also have internships outside of IVVC available to them. (19054A001 & 19055A001)

## **FIRE SCIENCE**

**First year students—Basic Operations Firefighter.** This course is a study of techniques used in fire fighting. This course covers the subjects required by the Office of the State Fire Marshal for certification at the Basic Operations Firefighter level. This course also incorporates a fire department atmosphere into the training. The student's daily routine includes proper uniform, apparatus and PPE checks and station cleaning. Students will take part in classroom lectures, demonstrations, hands-on practice on individual skills, training responses that incorporate these individual skills into fire ground evolutions through the use of various props and structures. Students will also complete a project on Pride, Honor and Tradition or complete a Line of Duty Death project. This program emphasizes the knowledge, individual skills and teamwork skills necessary for entry level personnel to become functioning members of a fire company. This program also covers Technical Rescue Awareness, Fire Service Vehicle Operator, Hazardous Materials Awareness, Hazardous Material Operations and Courage to be Safe. First year students will also become CPR certified.

**Second year students—Advanced Technician Firefighter.** Second year students begin the year working on all the required course work to obtain their Advanced Technician Firefighter certification. This class is designed for the experienced firefighter. Some of the hands-on skills include R.I.T. evolutions, radio communication drills, forcible entry, ventilation, and assisting Technical Rescue Teams. Students will also complete the Vehicle Machinery Operations class. VMO teaches students how to deal with various auto accident incidents. Extensive hands-on tool time is given to the students to work with various tools and techniques to perform auto extrication. Students will be trained in Fire Apparatus Engineer. This portion of the year teaches students the knowledge and skills needed to perform pump operations at a fire scene. Second year students finish the year completing Emergency Medical Technician Basic. This portion

## **FIRE SCIENCE (cont.)**

will teach the students patient care in both traumatic and emergent medical care situations, as well as the use of medical equipment and materials. After the EMT-B portion is completed, it will ready the student to challenge the State and/or National Registry tests for EMT-Basic Licensure. Both classes are offered at the Sandwich Fire Station. (15152A001 & 002)

## **GRAPHIC COMMUNICATIONS**

Become part of the next generation of digital design! The world is full of images and words and Graphics *IS* that world. Students will study foundation software and design skills and be introduced to careers in art and design. Learn what it takes to design an awesome t-shirt and how to make a poster pop. Make your own logo and print it on notepads, stationery, and business cards. Design a product label and work with a professional photographer on a photo shoot to produce an original magazine ad. Be a digital photographer. Learn how to take portraits, make an iMovie or shoot a video for YouTube. Learn how to use state of the art software (Illustrator, InDesign and Photoshop) to turn your creative ideas into a reality. Field trips will introduce you to animation, web design, entertainment staging, college life, marketing, printing and more. Art or computer experience is helpful, but not a requirement to be successful in the amazing world of Graphic Communications. (11154A001 & 002)

## **HEALTH OCCUPATIONS—EXPLORING MEDICAL CAREERS**

Do you want a career in the medical field? Do you want to learn more about what careers are available? This course is for junior and senior students who are interested in exploring medical careers in an applied life science skill format. The curriculum provides hands-on learning opportunities involving body systems and medical careers. Students will learn basic medical procedures associated with the health profession, including performing vital signs, injections and blood draws on a training arm. Students will also be able to job shadow at local medical facilities to see what a career in the medical field really entails. Want to know what esophagogastroduodenoscopy means? You will learn that and many more medical terminology words that are necessary to continue in the medical field. The students will obtain their CPR certification, along with basic first aid training. (14002A002)

## **HEALTH OCCUPATIONS—CNA (Certified Nurse Assistant)**

This course is for **SENIORS ONLY** who are interested in becoming Certified Nurse Assistants. The student must have passed a biology or bio-med class at the home school with a minimum grade of C and must have a good attendance record. The Exploring Medical Careers class is not a prerequisite for this class; however, approval from IVVC and the home school may be required. This course follows the guidelines of the Illinois Department of Public Health to achieve a certificate as a Certified Nurse Assistant. Forty hours of hands-on clinical time is required. A fingerprint criminal background check is also required. (14051A001)

## **LAW ENFORCEMENT**

This course is designed for the student who is contemplating a career in law enforcement. The curriculum follows the certified Illinois State Police Basic Training used by all the Illinois Police Academies. All students may be required to submit to random drug testing and a background check in order to be involved with any "hands-on" activities. Students with a criminal history should not enroll. First year students will be studying criminal law, vehicle code, and case law in the first semester and learning how to investigate crimes, process a crime scene, and execute arrests in the second semester. Students will engage in dynamic scenario-based training, defensive tactics, officer safety skills, firearm safety and simulators using air soft and paintball activities. At the conclusion of the first year, students will be able to correctly investigate a crime, make an arrest, complete booking and arrest report, and testify in court. Second year students will be leading class discussions, composing research projects, assuming a supervisory role with first year students, and actively training in Jiu Jitsu, Judo, and karate, as well as competing in weekly training scenarios using air soft.

Guest speakers include Secret Service, FBI, DEA, SWAT and field trips may include jails, police academies, military facilities, and police departments. The instructor is a current police officer and state certified firearm and air soft instructor. (15051A003 & 004)

## **SPORTS MEDICINE/SPORTS MANAGEMENT**

The course will introduce the student to the many professions within the sports medicine and sports management industries, such as Athletic Training, Coaching, Physical Therapy, Personal Training and Massage Therapy. Sports Medicine I focuses on the anatomy of the skeletal and muscular systems, injuries, rehabilitation protocols, as well as taping and wrapping techniques. Sports Management I introduces students to a variety of careers in sports, including, but not limited to, the fitness industry, coaching, facility planning, sport marketing and sport journalism. A requirement of all first year students is to perform, outside of regular class time, fifteen hours of professional job shadowing. Second year students meeting all prerequisites have the opportunity to participate in internships with local businesses. This course offers necessary skills required to enter many post-secondary educational programs. (14062A001)

## **WELDING & FABRICATION**

This course is designed for students who are ready to challenge themselves and become the welders and metal fabricators of tomorrow. Various welding and cutting processes are taught throughout the year and students will demonstrate these skills through hands-on activities in the shop. Several class projects, both individual and group, are done throughout each quarter which coincide with class lectures. Personal projects are welcomed once students have finished their assigned welding tasks. Production strategies and lean manufacturing skills are demonstrated, giving the students a taste of the real-world and what makes a successful business. First year students are challenged in flat and horizontal welding positions while second year students learn how to weld in the vertical and overhead positions. Employability, which emphasizes their professional conduct, is a significant portion of the student's grade. (13207A001 & 002)