

Indian Valley Vocational Center



2018 - 2019 Curriculum Guide

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600 Lions Road
Sandwich, IL 60548
Ph: 815-786-9873
Website: www.ivvc.net

Your Career Starts Here!

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:

**Joe Barbic, Director
Indian Valley Vocational Center
600 Lions Road
Sandwich, Illinois 60548**

AUTO BODY REPAIR

Grades: 11, 12
SIS #: 20116A001 (1st yr)
20116A002 (2nd yr)

The Auto Body Repair class at IVVC is a comprehensive program for collision repair and automotive paint refinishing. It also encompasses safety practices and safety equipment, as well as EPA standards. **First year students** will get a basic knowledge of collision repair, from damage assessment to the final detailing of the vehicle. **Second year students** will continue with the previous year's topics and get advanced training on structural repairs, as well as estimating repairs. All students will have the opportunity to work hands on in a body shop environment that will show them the process of taking a repair from the estimate to the delivery of the vehicle back to its owner. The IVVC body shop strives to provide a professional shop-like atmosphere. Students enrolled in this program will be expected to participate in routine physical activities on a daily basis that foster the development of movement skills and enhance health-related fitness.

WCC Articulation: Auto Body I & II – ABR 115 Basic Auto Body Repair (4 credits)

KCC Articulation: Auto Body I – CRT 111 Intro to Collision Repair (4 credits), Auto Body II – CRT 112 Non-Structural Repairs (4 credits)

KCC Dual Credit: Auto Body I – CRT 111 Intro to Collision Repair (4 credits), Auto Body II – CRT 112 Non-Structural Repairs (4 credits)

Other Certifications – SP2 (safety certification)

AUTOMOTIVE TECHNOLOGY

Grades: 11, 12
SIS #: 20104A001 (1st yr)
20104A002 (2nd yr)

Students enrolled in Auto Technology at IVVC will learn how to service and maintain high tech vehicles by way of classroom instruction

and lab work. **First year students** will learn the fundamentals of safety, lubrication, tire and wheel servicing, engine design, and automotive braking systems. Approximately 80% of their time is spent in the shop watching demonstrations and repairing live vehicles. **Second year students** move on to diagnostic functions on the car's computer systems, engine theory, and also perform alignments using our state-of-the-art equipment. All students have the opportunity to learn how to provide service writer and parts person functions as the IVVC shop strives to provide a professional shop-like atmosphere. Students enrolled in this program will be expected to participate in routine physical activities on a daily basis that will foster the development of movement skills and enhance health-related fitness.

WCC Articulation: Automotive Technology II – AUT 100 Fundamentals of Automotive Technology (2 credits)

KCC Articulation: Automotive Technology I – AMT 110 Automotive Brake Systems & AMT 120 Suspension, Alignment & Brake Systems (8 credits total)

Other Certifications: SP2 (safety certification)

CERTIFIED NURSE ASSISTANT

Grade: 11, 12
Prerequisite: Good attendance record
SIS #: 14051A001

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. Students in this program are expected to participate in routine activities on a daily basis that involve physical movement and enhance health-related fitness. They will work cooperatively in groups demonstrating decision making, leadership skills and responsible behaviors. Students will learn how physical fitness and healthy living affect workplace performance and success. Students must be able to do heavy lifting, pushing and pulling.

WCC Articulation: NAS 101 Basic Nurse Assistant Training (7 credits)

KCC Dual Credit: NUR 100 Basic Nurse Assistant Training (7 credits)

Certification: Nursing Assistant; CPR – Health Care Provider Card

COMPUTER PROGRAMMING & GAMING TECHNOLOGIES

Grade: 11, 12

Strongly Recommended: A solid foundation of basic math skills, including geometry

SIS #: 10152A001

Computer Programming is a bottom to top course in the software development process. Students begin with programming fundamentals and evolve into deconstructing complex real-world programming problems. Students learn using C++ in a multitude of computer science fields such as: program design, gaming design, and micro controllers. We will use world class development tools such as QT and the Unreal Engine to bring student's thoughts to life. Consistent focus in this course will result in a stronger logic/object-oriented mindset that will foster greater mathematical and scientific understanding in other subjects or areas of life.

No prior courses are required to attend Computer Programming, but a strong foundation in math or related field is strongly recommended.

COMPUTER TECHNOLOGY (MAINTENANCE & REPAIR)

Grades: 11, 12

SIS #: 10252A001 (1st yr)

10252A002 (2nd yr)

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 are also a part of the course. Students will explore wired and wireless networks. Students enrolled in this program will be expected to participate in routine physical activities on a daily basis that will foster the development of movement skills and enhance health-related fitness. **Computer Technology II** builds on the skills taught in Computer Technology I. Students will work on advanced projects using those skills as well as serve as help desk support for the school. Internships may be available for eligible students.

WCC Articulation: Computer Technology – CIS 105 Introduction to Windows (1 credit)

Other Certifications – A+ Certification

CONSTRUCTION TRADES

Grades: 11, 12

SIS #: 17002A001 (1st yr)

17002A002 (2nd yr)

Construction Trades prepares the student with a variety of employment pathways within residential and commercial construction. Students will explore occupational and applied mathematical skills in the areas of survey, architecture, CAD, blueprint reading, concrete form, volume and geometric design, and rough and trim carpentry including roof systems, roofing and siding, masonry, plumbing, electrical, insulation, drywall, painting, landscaping, material estimation and project bidding. This program offers both classroom and hands-on experience with OSHA 10 Certification. The student will participate in the construction of numerous projects in order to meet the course competencies, as well as prepare him/her with employable skills. The student will also be prepared for advanced placement standing at the local community college or in a local approved program of apprenticeship training. Enrolled students will be expected to participate in routine physical activities in an outdoor environment, as well as classroom activities on a daily basis. Students enrolled in

this program will be expected to participate in routine physical activities on a daily basis that foster the development of movement skills and enhance health-related fitness.

COSMETOLOGY

Grades: 11, 12
SIS #: 19101A001 (1st yr)
19101A002 (2nd yr)

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 cosmetologists during the two year program.

CULINARY ARTS

Grades: 11, 12
SIS #: 16052A001 (1st yr)
16055A001 (2nd yr)

The IVVC Culinary Arts program offers students a hands-on experience of the restaurant industry. They will learn how to operate a catering and quick service restaurant business. Developing strong knife skills, organizational techniques, sanitation fundamentals and understanding the flavor profiles of ingredients are core principles of the course. Students will gain real world expertise to help them meet the demands of the modern restaurant industry. Course expectations will require the use of basic math skills along with developing public speaking and presentation techniques. Labs will require the ability to work well with others in a fast paced kitchen environment.

Students enrolled in Culinary Arts will be expected to participate in routine physical activities on a daily basis that will foster the development of movement skills and enhance health-related fitness.

JJC Articulation: **Culinary Arts II** – HOSP 120 Exploring the Hospitality Industry (3 credits)

Certifications: ServSafe Sanitation License (required), ProStart Certification (optional)

EARLY CHILDHOOD EDUCATION

Grades: 11, 12
SIS #: 19054A001 (1st yr)
19055A001 (2nd yr)

Do you enjoy working with children? The Early Childhood Education program offers students excellent opportunities to work with 3, 4 and 5-year old children. This class offers hands-on experiences teaching children in our preschool lab setting. All students experience planning and teaching activities in the areas of art, science, language, math and Pre-K skills geared to the development of the preschool age child. **Second year students** have internship opportunities in local pre-, elementary, and junior high schools available to them. This course also utilizes the **Gateways to Opportunity** program, which gives the students the opportunity to earn an **ECE Credential Level 1 Certificate**. Students enrolled in this program will be expected to participate in routine physical activities on a daily basis that will foster the development of movement skills and enhance health-related fitness.

WCC Articulation: **Early Childhood I** – ECE 102 Career Explorations in Early Childhood (3 credits)
Early Childhood II – ECE 101 Introduction to Early Childhood Education (3 credits)

KCC Articulation: **Early Childhood I & II** – ECE 110 Foundations of Early Childhood Education (3 credits)

Certification: Gateways to Opportunity Level 1 ECE Credential; CPR Heartsaver Card

EMERGENCY MEDICAL RESPONDER

Grade: 11 or 12
SIS#: 14002A003

Learn to provide immediate care to an ill or injured person and to assist emergency medical service EMS providers. Completion of this class will provide a strong background useful in lifeguard positions, fire service, sports

medicine, ski patrol, medical facilities and in preparation for the EMT course.

EMERGENCY MEDICAL TECHNICIAN – EMT BASIC

Grade: 12
SIS #: 14055A001

This **senior only** course covers emergency medical response and care for the sick and injured. Topics include medical terminology, legal and ethical aspects of emergency medicine, CPR, patient assessment and care of medical and trauma patients. Students also learn communication and documentation skills and have the opportunity to learn and demonstrate emergency management and incident command skills. This course includes a clinical component to be completed in area hospitals, as well as the opportunity to do ambulance ride-along time with local fire departments. Upon successful completion of the EMT Basic course and 18 yrs of age, students are eligible to take the IL State licensure exam or the National Registry of EMT certification exam. Students are expected to participate in routine activities on a daily basis that involve physical movement and enhance health related fitness. This course gives the students the skills and knowledge foundation for successful entry into emergency medical services. Students interested in a Fire Department/ EMT career should consider taking IVVC Fire Science their junior year and then EMT their senior year. Most fire departments require dual certification.

WCC Articulation: EMT 120 – Emergency Medical Technician – Basic (9 credits)

FIRE SCIENCE

Grades: 11, 12
SIS #: 15152A001 (1st yr)
15152A002 (2nd yr)

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, National Incident Management System and Courage to be Safe.

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. During the spring portion of the class, Hazardous Materials Operations is completed. This class will give the student the knowledge and skills necessary to function as a Hazardous Materials First Responder. Throughout the year, second year students will assist the first year students during various company evolutions acting as company officers.

Both classes are offered at the Sandwich Fire Station. Indian Valley Vocational Center's Fire Science Technology Class is fully certified by

the Illinois Office of the State Fire Marshall (OSFM). Students of this program are eligible to take OSFM certification tests after they have received the appropriate experience or other requirements as stated by the OSFM.

First and second year students in this program are expected to participate in routine activities on a daily basis that involve physical movement and enhance health-related fitness. Students will learn how physical fitness and healthy living affect workplace performance and success.

WCC Articulation: Fire Science I – FSC 105 Basic Operations Firefighter Module A (4 credits); FSC 115 Basic Operations Firefighter Module B (4 credits), FSC 118 Basic Operations Firefighter Module C (4.5 credits) and FSC 215 Technical Rescue & Vehicle Operations (.5 credit). Fire Science II – FSC 125 Advanced Technician Firefighter (4 credits), FSC 150 Vehicle Machinery Operations (3 credits), and FSC 120 Hazardous Materials Operations (3 credits).

WCC Dual Credit: Fire Science I – FSC 105 Basic Operations Firefighter Module A (4 credits); FSC 115 Basic Operations Firefighter Module B (4 credits), FSC 118 Basic Operations Firefighter Module C (4.5 credits) and FSC 215 Technical Rescue & Vehicle Operations (.5 credit). Fire Science II – FSC 125 Advanced Technician Firefighter (4 credits), FSC 150 Vehicle Machinery Operations (3 credits), and FSC 120 Hazardous Materials Operations (3 credits).

Other Certifications: FI I - National Fallen Firefighters "Courage to be Safe" certification; FEMA NIMS (National Incident Management System) 100: Introduction to the Incident Command System; FEMA NIMS 700: National Incident Management System, An Introduction. FI II - CPR - Health Care Provider card; FEMA NIMS 200 ICS (Incident Command System) for Single Resources and Initial Action Incidents. Once a student turns 18 and is on a fire department roster, they can take the Office of the State Fire Marshal exam for state certification.

GRAPHIC DESIGN

Grades: 11, 12
SIS #: 11154A001 (1st yr)
11154A002 (2nd yr)

Welcome to the world of Graphic Design!
Everywhere you look, you see design ... and behind every design is someone like you!

Come join us as we take a detailed tour through three of the key Adobe programs a graphic designer uses: InDesign, Illustrator and Photoshop. We'll learn how these programs work alone, and we'll also learn how they work together to create amazing pieces of art. Marketing and branding will be part of our journey, as we design for real-world clients in our local communities. We learn how to communicate with customers and develop excellent customer services skills. As part of our design team, you'll also work in our T-Shirt Shop designing and manufacturing apparel items. This class is mostly "hands-on." Students who are interested in taking this class should be comfortable on a computer and have a good eye for design and a desire to create ... and a good imagination is helpful too!

Second year students of this class will not only become better at what they know, but they will have the opportunity to co-teach and provide one-on-one help for those new first year students. If you love design and you love a good challenge - then this is the class for you.

WCC Articulation: Graphic Design I or II – GRD 160 Computer Illustration (3 credits). Graphic Design II – GRD 170 Digital Image (3 credits)

HEALTH OCCUPATIONS

Grades: 11, 12
SIS #: 14002A002

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. Students have the option of earning dual credit through WCC for COM 125 (Communication Strategies for Health Careers). 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. The students will learn CPR, along with basic first aid training. Students in this program are expected to participate in routine activities on a daily basis that involve physical movement and enhance health-related fitness. They will work cooperatively in groups demonstrating decision making, leadership skills and responsible behaviors. Students will learn how physical fitness and healthy living affect workplace performance and success.

WCC Articulation: HIT 105 Medical Terms for Health Occupations (1 credit)

WCC Dual Credit: COM 125 Communication Strategies For Health Careers (2 credits)

Other Certifications: CPR – Heartsaver card

LAW ENFORCEMENT

Grades: 11, 12
Recommended: Successful completion of Speech & Keyboarding, B average or higher in English

SIS #: 15051A003 (1st yr)
15051A004 (2nd yr)

Law Enforcement I – This course follows several college level courses and is designed to allow students to explore the various career choices within the criminal justice system, emphasizing work-related characteristics, job duties, employment potential, and career trends. It will cover the criminal justice system including an historical and philosophical overview of the development, with special emphasis on the system's primary components and the relationship of these components in the administration of criminal justice in the US. Additional topics include law enforcement philosophies and theories, case and procedural law, community policing, the importance of written and verbal communication, ethical considerations, officer safety and criminal investigation. The student will be introduced to APA format of writing, preparing the student for college. Students will also be engaged with reading and writing

assignments, including at least six research papers using Microsoft Word, orally present on various topics ranging from 1 to 15 minutes using Microsoft PowerPoint, and be able to engage in novel discussion groups.

Law Enforcement II – This course introduces students to the fundamentals of criminal investigation. Topics include an examination of the preliminary and follow-up investigation, crime scene search, and collection and preservation of evidence, interviewing witnesses and victims, interrogation of suspects, and rules governing the admissibility of evidence in court testimony are also covered. This course will also provide students with instruction and practice in the preparation of accurate police reports suitable for use in the courtroom. The development of a clear, concise, narrative writing style is emphasized, and weekly report writing exercises are critiqued. Students will be introduced to firearm safety, defensive tactics and physical training. Students will also be training Law Enforcement I students in various scenarios. Students may be subject to random drug testing.

Law Enforcement I & II - Field trips may include police departments, courtrooms, jails, police academies and other various criminal justice related locations. Students in this program are expected to participate in routine activities on a daily basis that foster the development of movement skills and enhance health-related fitness.

WCC Articulation: Law Enforcement I – CRJ 105 Patrol Operations (3 credits)

WCC Dual Credit: Law Enforcement I – CRJ 102 Criminal Justice Career Exploration (2 credits)

SPORTS MEDICINE

Grades: 11, 12
Recommended: C or higher in Biology I, genuine interest in Science
SIS #: 14062A001

This course introduces students to professions in the Sports Medicine field, including Athletic Training, Physical Therapy, Personal Training, Coaching, Massage Therapy and the

Fitness/Wellness Industry. The instructor is an Illinois licensed Certified Athletic Trainer with over 20 years experience in the field. Students in this program are expected to participate in routine activities on a daily basis that involve physical movement and enhance health-related fitness. They will work cooperatively in groups demonstrating decision making, leadership skills and responsible behaviors. Students will learn how physical fitness and healthy living affect performance and success.

Sports Medicine I: Focuses on the anatomy of the skeletal, muscular and nervous systems, injuries to those structures, basic treatment and rehabilitation protocols, concussion recognition and management and taping techniques. Students also follow the National Academy of Sports Medicine's Certified Personal Trainer Curriculum. Students wishing to sit for the exam may do so after completion of this course (additional cost). First year students are **required** to perform 15 hours of professional job shadowing outside of regular class time.

Sports Medicine II: Students who have expressed a desire to continue their education in the Sports Medicine field after high school, and who have met all prerequisites have the opportunity to participate in IVVC's Sports Medicine internship program. Intern students spend two or three days/week at a professional site performing observation, and to some extent, participating in various tasks. Second year students assist the instructor with first year students, as well as manage class work with their internship schedule. Second year students wishing to intern should have excellent attendance and an A or B in Sports Medicine I. Intern students are required to furnish their own transportation to their job site.

WCC Dual Credit: Sports Medicine I – PED 150 Basic Prevention & Care of Athletic Injuries (3 credits)

Other certifications: Heartsaver card, NASM Certification

WELDING & FABRICATION

Grades: 11, 12
SIS #: 13207A001 (1st yr)
13207A002 (2nd yr)

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. 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. Students enrolled in this program will be expected to participate in routine physical activities on a daily basis that will foster the development of movement skills and enhance health-related fitness.

WCC Articulation – Welding & Fabrication I & II – WLD 115 Oxy-Fuel Welding & Cutting (3 credits) and WLD 120 Shielded Metal Arc Welding I (3 credits)

Other certification: OSHA-10 (safety certification)

**JJC – Joliet Junior College
KCC – Kishwaukee Community College
WCC – Waubensee Community College**