FOX VALLEY CAREER CENTER

2027-2028 Course Guide

This Course Guide is to provide students and parents/guardians information about Fox Valley Career Center (FVCC) programs. It describes the procedures, services, program descriptions and awards.

Fox Valley Career Center can help students:

- Explore and make decisions about future careers
- Prepare for a successful transition to entry-level employment opportunities, unions, technical schools, 2-year or 4-year colleges or universities
- Learn Employability skills and how they apply to post-secondary success

We hope this information helps bring awareness to all students of the opportunities at Fox Valley Career Center.

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Registration Information

Registration is a two-step process. High school students register for an FVCC class by filling out the FVCC Course Request form available at foxvalleycc.org and registering for classes through their home school. Students should fill out their demographic information as accurately as possible when submitting their FVCC Course Request. Guidelines concerning admissions to our programs are established by each member high school. When students complete a program at FVCC, they receive a certificate of completion and earn credit towards graduation from their high school.

General Information:

Work- Based Learning

A Work- Based Learning Coordinator is available to work with students and programs to provide the following services:

Guest Speakers
Curriculum related Field Trips
Job Shadow opportunities
Internship opportunities

Satellite Programs

Satellite programs are off-campus programs taught at sites other than FVCC. Other schools and industrial sites may be selected for such programs to provide a more centralized location, access to facilities for FVCC students which are not available on campus, and make more efficient utilization of staff, equipment and facilities.
Students are responsible for providing their own transportation to and from these programs.
Session schedules may vary depending on home school or satellite location schedules.

School Day

There are four sessions offered during the school year:

1st Session: 7:45 a.m.-9:25 a.m.
2nd Session: 9:30 a.m.-11:10 a.m.
3rd Session: 11:15 a.m.-12:55 p.m.
4th Session: 1:00 p.m.-2:40 p.m.

Not all programs are offered every session.
*Off-campus classes have different schedules in order to accommodate student travel times.

Students with IEPs, 504s, or Health Care Plans

It is the mission of Fox Valley Career Center to deliver the same educational opportunities to students of all abilities. If you have questions about your students IEP, 504, or Healthcare plan, please contact our Assistant Director, Ms. Vida Martin at 84536@kaneland.org or (630) 365-8245.

Internships and Job Shadowing

FVCC offers off-campus job shadowing and internship opportunities in advanced level classes, during which the student spends time in their career specialty in the workplace. These may require students to have their own transportation to get to and from various placements.
This involves hands-on experience, problem solving techniques, improvement of written and oral communication skills, and learning essential employable skills necessary to be successful in today's job market.

Students will be chosen to take part in job shadowing and internships based on the recommendations of their FVCC instructor, School Counselor, FVCC Administration, and most importantly, the desire of the student to participate in the program. Employers are looking for employees who have developed their skills and can exhibit them on the job.

Internships

Internships may take place during the students' regularly scheduled FVCC classes or during non-FVCC school hours either on campus or off campus. If the internship takes place during the student's class time, the intern may be released from the FVCC program for two or three days a week to be at the business site. The scheduled time an internship takes place will be determined by the program instructor, Work-Based Learning Coordinator and employer. The internship may be for a nine week period, semester, or in some cases may last the entire school year. An internship may only be permitted with the consent of the FVCC program instructor and the work based learning coordinator.

As part of their internship, students are required to work with their instructor to complete a training plan. The intern will also be required to complete an attendance log, monthly wage (when applicable)/hourly report, and a final evaluation of their experience. These requirements will be monitored by the Work- Based Learning Coordinator. The business employer will also give a final evaluation of the student's performance.

The program instructor, Work-Based Learning Coordinator, FVCC Administration and/or business representative may terminate an internship at any time if the student is not fulfilling internship requirements and obligations. Interns may or may not be paid for their services. No additional credit will be earned for an internship.

Job Shadowing

Job shadowing gives FVCC students the opportunity to observe a business and receive information about that business from the employer. This opportunity usually takes place during the time the student would be at FVCC. This experience will help the student make informed decisions about career choices as well as about post-secondary education opportunities to further their education after graduating from high school.

Students will be contacted by the work- based learning coordinator about job shadowing opportunities. If a student is interested they will then complete the job shadowing form and return it at least three days prior to the scheduled date. Once the student has completed the job shadowing, they will turn in a report on their observations and experience to their instructor.

Student Awards

Students enrolled in classes at Fox Valley Career Center can achieve recognition for achievement in several ways; as individuals; as a member of a class, and as a school. The following provides a brief description of the various honors available. There are additional scholarships and awards available through technical schools, 2-year and 4-year colleges/universities; see each schools website for additional information.

National Technical Honor Society

Students that qualify for NTHS membership are nominated by their instructors/counselors. Students must have an overall cumulative unweighted 3.0 high school (B) average, including the first semester of this school year (5th/7th semester GPA). Students must also have a 4.0 grade point in their vocational program area at the end of the 5th / 7th semester. Students must be enrolled in a sequence of classes in vocational / technical subject areas. Students qualify by having no unexcused absences, and no more than 5 excused absences through their attendance office. Students can not have any discipline referrals from their dean's office or Fox Valley Career Center.

Program Completion Certificate

Each student who successfully completes a FVCC program receives a certificate of completion at the end of the school year.

Student of the Month

Fox Valley Career Center teachers developed this award to give recognition to students who are working hard and achieving positive results in their specialty program.

Each instructor may select one student per month, or two in unusual circumstances. A student may only be selected one time per course during the school year. Home school principals are notified of this so they may be recognized at their home school, and a letter is sent to the students' parents acknowledging the achievement.

A picture of the student is displayed in the FVCC hall display case with a quote from the students instructor. Each student also receives a certificate of recognition and a student of the month tshirt.

Student of the Year Scholarship

The Fox Valley staff presents the Student of the Year with a plaque and $500 that will be sent to the college or trade school of the student's choice to help offset expenses in their continuing education.

Each class at Fox Valley may nominate an outstanding student. These nominees complete a written information form and are evaluated on their knowledge, character, attendance, cooperation and activities. The top ten nominees are interviewed by a panel of school board members from each of the school districts. The plaque and scholarship are presented at the honors assembly of the winning students' school.

Local, Regional and State Competitions

Each career field may have competitions with other schools and career centers in the area. Each year, many students join FVCC SkillsUSA student organization in order to participate in state and national competitions. Over the years FVCC students have won numerous awards. Additionally, some programs may compete in local competitions.

Other Scholarships

Scholarships are available to students at FVCC. These are offered through various organizations in the area. Check with the FVCC office for details.

Early College Credit Opportunities:

Waubonsee Community College: Dual Credit

Waubonsee Community College awards college credit when learning experiences at the high school level duplicate those at the college level.

Dual credit programs are programs for which the students receive both high school credit and college credit. Students must complete the dual credit paperwork and pay the dual credit processing fee. We follow the Waubonsee Community College timeline, so deadlines can not be adjusted.
The fee per credit hour is $12 per credit hour in 27-28.

Articulated credit enables students to save time and money, and avoid curriculum duplication. Students must earn an A or B in the Fox Valley Career Center class each semester and apply to the college for their credit within two years after graduation. See your school counselor or career / technical instructor for the “College Credit Articulation Form”. For a complete list of requirements call the VALEES office at (630)466-2474 or visit their website at www.valees.org.
The processing fee for the form; regardless of the number of credit hours, was $10 in 26-27.

Students must choose EITHER articulated credit OR dual credit.

Early college credit information is listed in each program description.

Industry Certifications: Proficiency Credit for Prior Learning.

Prior learning assessment (PLA), and the subsequent awarding of college credits, is an important means for reducing time to completion. In addition to time, you can save money and repetition as you get credit for the things you've already learned without the official coursework through Waubonsee Community College.

We will review credit for prior learning with students in spring to help them navigate the process.

The courses that qualify for this are:

*CompTIA: A+ CIS 118 Information Technology Professional 3

*CompTIA: Security+ CIS 207 Security Awareness 3

*OSHA 10 MTT 100 Safety Principles 1

Automotive Technology

This program is for you if you:

- Like to work on cars
- Have a solid base in mathematical and reading skills
- Can assume responsibility and follow a job through to completion
- Have the ability to work as a team member and use time wisely
- Want to use state-of-the-art diagnostics to help in problem solving

Program Description:

Automotive Technology students have the opportunity to develop skills necessary to obtain employment in the automotive industry. An auto technician services and repairs mechanical, electrical, and computer driven parts on different types of automotive equipment. After making necessary inspections and tests to determine the cause of the faulty operation, the technician then replaces the defective parts to restore the vehicle to the proper operating condition.

*** Anticipated fees may be adjusted depending on cost of materials and supplies.**

Automotive Technology I

Grades: 11,12
Prerequisite: None. Any previous Industrial Technology course recommended.
2.5 Credits for the year
Automotive Technology I introduces students to the wide field of auto repair. The class is divided into four main areas of study: brakes; steering and suspension; electrical; and engine repair and computer controls. Students will also be instructed on how to locate service data, determine what is important and use that information to troubleshoot and repair automobiles. Students must supply their own safety glasses and steel toe shoes / boots. Tools will be provided.

Students have the opportunity to earn the S/P2 Auto Safety certification

Automotive Technology II

Grade: 12
Prerequisite: Successful completion of Automotive Technology I and teacher recommendation.
2.5 Credits for the year
Automotive Technology II is an extension on Automotive Technology I. We will continue the four main areas of study from Auto I, this course will be project based, and students are allowed input into which topics are covered. Students are encouraged to suggest or bring their own projects, and are given more time in the lab to complete larger repairs. All projects must be approved by the instructor. Students must supply their own safety glasses and steel toe shoes / boots. Tools will be provided.

Students may have the opportunity to take the ASE G1 Maintenance and Light Duty certification exam.

Students may have the opportunity to earn dual credit through Waubonsee Community College for AUT100- Maintenance and Light Duty 2 credit hours. There is an additional fee per credit hour.

Upon completion of of the FVCC Automotive program:

You could qualify for a position such as:

- Auto Technician Apprentice
- Parts Counter Trainee
- Tire Service Technician
- Auto Service Trainee

Associate of Applied Science:

You could qualify for a position such as:

- Automotive Technician
- Automatic Transmission Rebuilder
- Automotive Repair Service Estimator
- Certified Auto Technician
- Insurance Claim Adjuster
- Service Manager
- Diesel Technician

Upon completion of of the FVCC Automotive program: cont'd :

Bachelor Degree:

You could qualify for a position such as:

- Insurance Claim Manager
- Dealership Service Manager
- Dealership Sales Manager
- Design Researcher
- Auto / Diesel Instructor

Aviation Survey/ Ground School

*This course would be offered jointly with Indian Valley Vocational Center in Sandwich, IL.

If this course runs in 2027-2028 Students will need to provide their own transportation to the Aurora Municipal Airport in Sugar Grove.

*** Anticipated fees may be adjusted depending on cost of materials and supplies.**

Grades: 11,12
Recommendations: Students must have effective communication skills, the ability to follow instructions, the ability to work as part of the team, problem-solving skills, patience and confidence, mechanical aptitude, and ability to adapt to change.

Units of Study- Pilot careers, Air Traffic Control, Aviation Maintenance Technology, Airport Management, Airport Safety Management, Aviation Dispatch. Other career options within FAA: Weather Specialist, Personnel Management, Electrical Technician, Computer Technician, Flight Data Specialist, Traffic Management Specialist, National Transportation Safety Board (NTSB).

Tasks you will complete:

- Study skills
- Map reading
- Reading and understanding Federal Aviation regulations
- Separation of Aircraft
- Terminology
- Communications
- Aviation Phrasology
- Visiting facilities

Upon completion, students will be prepared to take the private pilot written exam.

Related careers:

- Private Pilot
- Commercial Pilot
- Airline Transport Pilot
- Air Ambulance

Aviation Mechanics I

*This course would be offered jointly with Indian Valley Vocational Center in Sandwich, IL.

If this course runs in 2027-2028 Students will need to provide their own transportation to the Aurora Municipal Airport in Sugar Grove.

*** Anticipated fees may be adjusted depending on cost of materials and supplies.**

Aviation Mechanics I is the first year of a two-year sequence.
Grades: 11,12
Recommendations: Students must have effective communication skills, the ability to follow instructions, the ability to work as part of the team, problem-solving skills, patience and confidence, mechanical aptitude, and ability to adapt to change.

Units of Study- Aerodynamics, Aircraft design, stability control, Federal Aviation Administration regulations and publications, Aircraft instrument identification and function, Aircraft weight and balance, Aircraft Skin maintenance and repair, Riveting and sheet metal repair (including aluminum), forming and layout, Corrosion and corrosion control.

Tasks you will complete:

- Riveting and sheet metal repair, forming and layout
- Oxyacetylene welding operation
- Ground handling of aircraft
- Avionics installation and repair
- Electrical wiring
- Oil and tire changes
- Identify basic hand tools and shop equipment

- Repairing brake systems including replacement of worn out parts
- Identifying system types and related components
- Identify types of suspension systems and their components

Related careers:

- Aviation Maintenance Technician
- Flight Operator
- Crew Scheduler
- Aircraft Maintenance Director
- Aircraft Maintenance Supervisor
- Airline Marketing professionals
- Aircraft parts sales
- Pilot

Commercial Drone Operations and FAA Remote Pilot certification

Grades 11, 12
Credits: 2.5 for the year

Recommendations: Basic technology familiarity and interest in aviation, STEM, or entrepreneurship. Ideal for students pursuing careers in aviation, construction, agriculture, public safety, surveying, real estate, media, or environmental services.

This program is for you if you:

- Enjoy working with your hands and power tools
- Like to assemble and build
- Desire to work in the building trades
- Are self-motivated and can work as part of a team or independently
- Have good hand eye coordination, mathematical and problem solving skills
- Are interested in pursuing a career in the electrical field
- Are interested in becoming an electrician
- Are interested in Heating and Air Conditioning

Program Description:

This year-long, hands- on course prepares students to become safe, certified commercial drone pilots. Students master drone flight fundamentals, FAA regulations, mission planning, and real- world commercial applications while working toward the FAA Remote Pilot Certificate (Part 107). Using DJI Mini drones in our airport- free environment students build proficiency through outdoor practice and industry-style projects. The course emphasizes safety, professionalism, and career-readiness, culminating in FAA exam preparation so students can earn their commercial drone license.

By the end of the year, students will be able to:

- Safely operate small unmanned aircraft systems (sUAS) in compliance with FAA Part 107 regulations
- Demonstrate proficiency in drone flight, preflight inspections, emergency procedures, and mission execution.
- Interpret airspace, weather, sectional charts, and performance data to make sound aeronautical decisions.
- Plan and complete commercial drone missions (e.g, mapping photography, inspections).
- Process and analyze drone-captured data using industry software.
- Prepare for and pass the FAA Part 107 knowledge test (70% minimum on 60-question exam).

Expected Outcomes and Certifications:

- All students are prepared to sit for the FAA Part 107 Remote Pilot knowledge test at an approved testing center. The exam fee is approximately $175. FVCC can assist with scheduling and transportation.
- Industry- recognized skills and portfolio for resumes and college applications.
- Immediate career pathways: Entry- level commercial drone pilot roles, internships, or entrepreneurial ventures. Many graduates can begin freelance or part-time work while in college.
- String foundation for advanced certifications or college UAS programs.

*** Anticipated fees may be adjusted depending on cost of materials and supplies.**

Computer Technology

This program is for you if you:

- Like to problem solve
- Enjoy working with your hands and mind
- Can effectively follow both written and verbal instructions
- Can assume responsibility
- Desire a job with good salary and potential for advancement

Program Description:

Students have the opportunity to learn a wide variety of computer technology skills. Computer Technology provides many computer related experiences designed for entry into the job market. All students gain practical hands-on knowledge using state-of-the-art computer technology systems.

*** Anticipated fees may be adjusted depending on cost of materials and supplies.**

Preferred course sequence is:
10th Grade: PC Repair
11th Grade: Pre-Cybersecurity
12th Grade: Cybersecurity

****Classes can also be taken as stand alone courses.**

Cybersecurity (CompTIA Security+)

Grades: 11,12
Prerequisites:

- Completion of FVCC PC Repair and PreCybersecurity; OR
- Completion of FVCC Game Programming; OR
- Completion of a Computer Science course with a C or better at your home school

2.5 Credits for the year
Students who enroll in Cybersecurity **will prepare for the CompTIA Security+ certification** while developing practical, hands-on cybersecurity skills. Security + is a widely recognized, entry-level cybersecurity certification that validates foundational skills needed for careers in cybersecurity and information technology. Students explore cybersecurity threats and vulnerabilities and learn how organizations protect systems, networks, and data. Topics include social engineering, cryptography, identity and access management, network security, incident response, and risk management. Hands- on experiences include cybersecurity labs, virtual machines, Kali Linux and other security tools, as well as challenges and competitions through the National Cyber League. Students practice investigating problems, troubleshooting, analyzing evidence, and applying security concepts in authorized lab and competition environments.

Students who earn their CompTIA Security+ certification may have the opportunity to receive college credit through Waubonsee Community College.

Game Programming and Technologies

Grades: 11,12
Game Programming & Technologies introduces students to the technical and creative process used to design and develop video games. Students learn C# programming and use the Unity game engine to create playable 2D and 3D games, develop game mechanics, build environments and user interfaces, and test and refine their work.

Students also use Blender to create 3D models and game assets and explore additional technologies such as 3D printing and physical game controllers. Throughout the year, students complete guided and independent projects while developing skills in programming, problem-solving, debugging, playtesting, and iterative design. Students will also explore careers in the game development industry and develop projects suitable for a technical portfolio.

No previous programming or game development experience is required. Because this is a hands-on technical course, students should enter with basic computer proficiency, including the ability to

Game Programming and Technology continued:
navigate files and folders, open and save files, and learn new software. Students should be prepared to follow multi-step written and verbal directions, work independently for portions of the class, pay close attention to detail, and persist through troubleshooting when a project does not work as expected.

PC Repair (COMPTIA A+)

Grades: 10, 11, 12
Prerequisites: Some familiarity with computers (have used a Windows machine for basic tasks)
2.5 Credits for the year

PC Repair is a hands-on course focused on computer hardware, troubleshooting, repair, networking, operating systems, and technical support. Students learn to build, upgrade, maintain, and troubleshoot computers while preparing for the industry-recognized **CompTIA A+ certification**.

Hands-on experiences include computer teardown and assembly, PC building, hardware and software troubleshooting, networking, soldering and electronics, 3D design and printing, and real-world repair and help-desk projects. Students also explore operating systems, storage, security, mobile devices, virtualization, cloud technologies, and other emerging areas of IT.

Throughout the year, students prepare for both **CompTIA A+ certification exams—Core 1 and Core 2** while developing the problem-solving, documentation, communication, and professional skills used by IT support technicians. Additional experiences may include field trips, guest speakers, and technology or maker projects.

Students who earn their CompTIA A+ certification may have the opportunity to receive college credit through Waubonsee Community College.

PreCybersecurity (COMPTIA Networking+)

Grades: 11,12
Prerequisites: PC Repair recommended
2.5 Credits for the year
Students who enroll in this course **will be training and studying to pass the CompTIA Networking+ exam.** The class will cover units in: cabling, firewalls, switching, routing, wireless, WANs, network management, security, and troubleshooting. Our class will also enter Networking Security competitions such as the National Cyber League. Students will gain hands-on knowledge of networking tools, as well as the opportunity to earn certification for future employment.

Upon completion of FVCC computer program:

You could qualify for a position such as:

- Computer Maintenance Technician
- LAN Technician
- LAN Administrator
- Microcomputer Support Specialist
- Web Designer
- Web Developer
- Game Tester

Associate of Applied Science:

You could qualify for a position such as:

- LAN Technician
- Small Business Owner
- Computer Operator

Bachelor Degree:

You could qualify for a position such as:

- Information Systems Analyst
- Computer Programmer
- Network Engineer
- IT Manager
- E-commerce Specialist
- Security Specialist
- Game Programmer
- Game Designer

Cosmetology

This program is for you if you:

- Are creative
- Like working with your hands
- Enjoy keeping up with the latest trends in hair styles, nails and skin care
- Are social and enthusiastic

Program Description:

Cosmetology is defined as the art and science of beauty care involving the skin, scalp, and nails. The 1500-hour cosmetology program is divided into five basic areas for state regulation. These five basic units include: hairdressing; hair treatment; sanitation; facials; and related electives. After completion of the program, the student will be able to demonstrate job entry skills in required subjects, take and pass a final school exam in both theoretical and practical skills to enable them to qualify to take the examination to obtain an Illinois Culture License. Cosmetology training is made available at several locations contracted by Fox Valley Career Center. Students that complete the two- year sequence will earn approximately 1,000 of the 1500 hours. The remaining hours will be completed as a private student after graduation from high school.

Students are required to attend an Orientation before they can register at either Debutantes in DeKalb or HairPros in Sycamore. Students and their parents/ guardians sign a financial agreement and a student expectation contract.

Cosmetology I

Grades: 11,12
Off Campus Class (Various locations)
Prerequisite: None
3 Credits for the year
Cosmetology I is divided into several units of study that include hair shaping, hair styling, draping, shampooing, blow dry styling, manicuring, facials, waving and sanitation. Chemistry and professional ethics will be taught in conjunction with the above units. Laboratory work and classroom instruction help students learn the theory required for licensing. Students must complete their first year hours to continue the program in year two. Students are required to furnish their own transportation to the training schools, buy uniforms, shoes, cosmetology kit, and pay the required registration, and monthly tuition.

27-28 Pricing: new prices to be released in 2027:
Debutantes in DeKalb: 1 time kit fee $1500, 1 time Non-refundable registration fee $100, plus monthly tuition fees: 520 hours

HairPros in Sycamore: 1 time kit fee $1500, 1 time Mom-refundable registration fee $100, plus monthly tuition fee $300+ (depending on number of hours student chooses). Students can choose to earn up to 540 hours in their first year.

Cosmetology II

Grade: 12
Off Campus Class (Various locations)
Prerequisite: Cosmetology I and teacher recommendation
3 Credits for the year
Students will continue to work to obtain the required 1500 hours and meet state requirements for licensing testing. After completing the second year of the cosmetology curriculum and graduating from high school, students must enroll as a private student to complete the remaining 1500 required lab hours in order to take the Cosmetology Licensing Exam and become a licensed cosmetologist. Students are required to furnish their own transportation to the training schools, replenish any supplies needed, buy uniforms, shoes, and pay the required monthly tuition.

Upon Completion of the FVCC Cosmetology Program:

You could qualify for a position such as:

- Cosmetologist
- Hairdresser
- Manicurist
- Barber
- Nail Technician
- Color Technician

Associate of Applied Science:

- Cosmetologist
- Cosmetology Instructor
- Electrologist
- Salon manager
- Nail Technician

Please contact your school with questions about financial assistance for this program.

Electrical Systems

This program is for you if you:

- Enjoy working with your hands and power tools
- Like to assemble and build
- Desire to work in the building trades
- Are self-motivated and can work as part of a team or independently
- Have good hand eye coordination, mathematical and problem solving skills
- Are interested in pursuing a career in the electrical field
- Are interested in becoming an electrician
- Are interested in Heating and Air Conditioning

Program Description:

The Electrical Systems program is designed to help students decide if they would like to pursue a career as an Electrical Systems Technician or in the electrical field. Students who do well in this program are very desirable candidates in the workforce. Some students have gone on to own their own electrical contracting business. Students will learn terms, circuits, install breaker panels, lighting systems, outlet systems, industrial motor controls, troubleshooting, and communication systems, along with reading and understanding blueprints, bending conduit, and studying the National Electrical Code. Courses are 80% hands on and 20% book work.

*** Anticipated fees may be adjusted depending on cost of materials and supplies.**

Electrical Systems Wiring I- Residential Wiring

Grades: 11, 12

Prerequisite: None, but a solid math background helps

2.5 Credits for the year

The primary focus of Electrical Systems I is residential wiring. The course covers a variety of wiring practices involving the use of Romex cable and conduit to construct most of the lighting and receptacle outlet circuits found in modern homes. Other topics include basic DC electrical circuits, magnetic motor control circuits and components, National Electrical Code rules, blueprint reading, and circuit breaker wiring. Students must provide their own safety glasses.

Students have the opportunity to earn dual credit through Waubonsee Community College for HVAC/R Electrical Systems 3 credits. There is an additional fee per credit hour.

Students have the opportunity to earn Occupational Safety and Health Administration (OSHA)10. This course also earns PLA for OSHA 10 MTT 100 Safety Principles 1 cr. Please see page 6 for more information.

Electrical Systems II - HVAC

Grade 12

Prerequisite: Electrical Systems I and teacher recommendation

2.5 Credits for the year

The Electrical Systems II course is an extension of the Electrical Systems I course with a heavy emphasis on residential Air Conditioning and a goal of passing the EPA 608 refrigeration exam. Most projects will require reading schematics and circuits that are more complex. Students will learn the basics of installing a residential split A/C system including brazing copper. The course will also include work on 220 volt circuit breaker panel wiring as well as more detailed blueprint reading. Students will design, analyze data, and complete a class project that will incorporate what they learn. Students must supply their own safety glasses.

Students have the opportunity to earn dual credit through Waubonsee Community College for Introduction to HVAC/R HVA110 3 credits. There is an additional fee per credit hour.

Students have the opportunity to earn the Environmental Protection Agency (EPA) 608 Universal Refrigerant Certification.

Upon completion of FVCC Electrical Systems Program:

You could qualify for a position such as:

- Apprentice Electrician
- Line Installer and Repairer
- Electrical Repairer
- Manufacturing Tester
- HVAC Apprentice

Associate of Applied Science:

You could qualify for a position such as:

- Apprentice Electrician
- Electrical Control Assembler
- Electrical Technician
- HVAC Technician
- Refrigeration Technician
- Automation Installer
- Alarm Systems Technician

Bachelor Degree:

You could qualify for a position such as:

- Electrical Engineer
- Design Engineer
- Research Engineer

Emergency Medical Services

This program is for you if you:

- Are interested in healthcare, emergency medicine, furthering your education in advanced degrees such as Medical School, Nursing, Physician Assistant, Nurse Practitioner, Physical Therapy, Athletic Training or Sports Medicine
- Get satisfaction from helping people in need in all stages of life
- Can remain calm under pressure

Program Description:

This is an entry level program for emergency medical services. Students will learn through classroom and guided practice activities. The basics of emergency medical care are covered and include: medical terminology, legal and ethical aspects of medicine, patient assessment of medical and trauma patients, vital signs, communication, documentation skills, CPR, packaging, bandaging of patients, medication administration, and advanced airway devices. These skills will prepare students for certification, licensure and employment opportunities.

*** Anticipated fees may be adjusted depending on cost of materials and supplies.**

Emergency Medical Responder: EMR

Credits:1.25 each semester. **This is a one semester class that students can take either semester 1 or 2.**

This class is for 11th graders interested in the EMT course and as a refresher before taking part in BNAT or EWMC as a Senior. The Emergency Medical Responder (EMR) course trains individuals to provide immediate, life-saving prehospital care for patients of all ages experiencing medical conditions or traumatic injuries, including patient assessment, CPR, and AED usage. The curriculum covers anatomy and physiology, airway management, bleeding control, and care for special populations, preparing EMRs for roles in public safety and as the first line of defense in the EMS system.

Students may have the opportunity to earn the EMR certification through NREMT.
EMR is NOT a requirement to get into BNAT, EMC or EMT as a Senior

EMT - Emergency Medical Technician

Grade: 12
Prerequisite: Grade of B or greater in English courses. Recommended courses Junior year are Emergency Medical Responder, Exploring Medical Careers, or Anatomy and Physiology at your home school.
2.5 Credits for the year

EMT program fulfills the prescribed requirements by Illinois Department of Public Health (IDPH) and prepares students to practice the art and science of pre-hospital medicine in conjunction with medical direction. The goal is to prevent and reduce mortality and morbidity due to illness and injury. An EMT primarily provides care to patients in a pre-hospital setting and serves as a vital member of the healthcare team.

This program is available to students who plan to go into the healthcare field (EMT, Paramedicine, Nursing, Physician Assistant, Nurse Practitioner, Physicians), Fire Service, or another area of emergency service like law enforcement. Upon successful completion of EMT, the student is prepared to take the National Registry EMT exam for certification.

Special Requirements: All students must purchase a FVCC Uniform top, pants, ID badge, stethoscope, watch with a second hand and textbook. In addition, students must complete and pass an American Heart Association (AHA) healthcare provider BLS CPR class. As part of the EMT class, students will complete a minimum of twenty five (25) hours of emergency room clinical in the prescribed time indicated by the instructor. The law requires all persons involved in patient care at any health agency to have a 2 step tuberculin skin test or blood draw, proof of vaccinations for MMR

EMT - Emergency Medical Technician cont'd:

(mumps, measles, and rubella), hepatitis B. Optional at this time are the Covid and flu vaccine. The students must also pass a drug screen.

Eligible students have the opportunity to take the NREMT licensure exam after graduation
Students have the opportunity to earn articulated credit for Emergency Medical Technician EMT120 9 credit hours.
Students may have the opportunity to earn dual credit through Waubonsee Community College

EMT supply fee for class materials $75
Online access for book $100
Textbook, optional to buy, $90
Uniform cost is approximately $100
Drug screen, TB test, and vaccines are the students responsibility.

When students are taking part in clinical hours at an area hospital and ambulance ride times, they will be required to provide their own transportation.

Upon completion of the FVCC EMT program:

You could qualify for a position such as:

- Volunteer EMT
- Contract EMT
- Hospital EMT
- Fire Department EMT
- Patient Care Technician (PCT)
- Emergency Department EMT
- Private Ambulance Companies

Associate of Applied Science:

- Paramedic AAS
- Medical Assistant
- Phlebotomy
- Nursing
- Health Sciences

Fire Science

This program is for you if you:

- Enjoy a physical challenge
- Get satisfaction in helping others
- You can remain calm under pressure

Program Description:

This program is designed to prepare students for entry-level firefighter positions. Students will be engaged in classroom, online and guided practice activities for the essentials of fire, rescue, and hazardous materials scene operations. Operational activities will include: hazardous materials, vehicle extrication, fire behavior, building construction, fire code enforcement, public education activities, use of personal protective equipment, coordinated fire suppression activities, aerial/ground ladder use, search and rescue, and fire service vehicle operator. This is a physically involved program that involves the development of leadership and communication skills through scenario based evolutions to prepare students for employment opportunities with local fire departments.
*** Anticipated fees may be adjusted depending on cost of materials and supplies.**

Fire Science I

Grades: 11,12
Prerequisite: None ; 2.5 Credits for the year
All first-year students (junior and senior) follow the complete IFSAC Firefighter Curriculum which includes the cognitive and psychomotor components to NFPA 1001 Firefighter 1, Hazardous Materials Awareness and Operations, Fire Service Vehicle Operator, and NIMS 100 and 700. Students will engage in simulated fire fighting activities. Drills will increase in complexity to challenge and evaluate firefighter capabilities. Drills combine students from Fire Science 1, Fire Science II program to simulate real life emergency scenarios. Fire Science is a dual credit program with Waubonsee Community College. **Students have the opportunity to earn 16 college credits in their first year of the program. There is an additional fee per credit hour. Students may have the opportunity to earn the BLS CPR certification.**
Uniform cost is the students responsibility.

Fire Science II

Grade: 12
Prerequisite: Fire Science I and teacher recommendation.
2.5 Credits for year
Second year students follow IFSAC NFPA 1001 Firefighter 2 Curriculum including the cognitive and psychomotor components related to a journeyman firefighter as outlined by NFPA 1001. Students will receive complete training toward NFPA 1006 Vehicular Extraction, Apparatus Pump Operator NFPA 1002, and NIMS 200-800. Students will engage in live simulated activities, progressing through graduated skills evolution. Drills are added with increasing complexity to challenge and evaluate firefighter capabilities. Drills combine students from Fire Science I, Fire Science II program to simulate real life scenarios. Fire Science is a dual credit program with Waubonsee Community College. **Students have the opportunity to earn 11 college credits in the second year of the program. There is an additional fee per credit hour.**
Uniform cost is the students responsibility

Upon completion of FVCC Fire Science Program:

You could qualify for a position as:

- Volunteer FireFighter First Responder
- Probationary FireFighter

Associate of Applied Science:

- Contract FireFighter
- Industrial FireFighter

Bachelor Degree:

- Career FireFighter Chief
- Fire Service Officer
- Senior Fire Service Officer
- Fire Investigator
- Fire Fighting Instructor

Education

This program is for you if you:

- Enjoy working with children
- Are interested in a job in the education field

Program Description:

This course provides opportunity for students to develop the skills to teach and guide others by learning to create developmentally appropriate lessons with clear teaching objectives. Through classroom and field experiences, students will gain knowledge and an understanding of the education profession. Students will have the opportunity to observe teachers and other education specialists in classrooms at all levels through active job shadowing; strengthen their time management skills and explore various teaching strategies in order to meet the needs of all students.
Students have the opportunity to complete certifications to prepare them for their educational placements such as; CPR, Food Handling, and Mandated Reporter.

*** Anticipated fees may be adjusted depending on cost of materials and supplies.**

Introduction to Pre-K 12 and Clinical Experience in Pre-K 12 Education classes are a full year. Students are encouraged to plan in advance to take both classes. Both courses are dual credit classes through Waubonsee Community College; EDU200 and EDU202 respectively. Dual Credit courses are courses taken by high school students that count both as high school credit and college credit. As a college course, expectations will be higher in this class than other high school courses.

Introduction to Careers in Public Education (Not Dual Credit)

Grades: 10, 11, 12
Recommended Prerequisites: None
1.25 Credits, Semester long class; offered in semester 1 or semester 2

Introduction to Careers in Public Education (Not Dual Credit) cont'd:

This course is a comprehensive study of the broad range of education careers. Students will discover careers in education, school psychology, social work, counseling, etc.and have the opportunity for job shadowing in public service careers. An in-depth study of community resources is included. NOTE: Students will be bused to educational locations for job shadowing.

Introduction to Pre- K 12 Education

Grades: 11, 12
Prerequisite: Child Development courses through home schools are strongly recommended and preferred.
2.5 Credits for year
This course introduces students to the principles underlying teaching and learning, responsibilities and duties of teachers, and strategies and techniques to deliver knowledge and information. A combination of classroom and field experiences will enable the student to gain knowledge and understanding of the education profession. Course content includes projects designed to develop an understanding of the learner and the learning process, instructional planning, the learning environment, assessment and instructional strategies, and career opportunities in the field of education.
Students have the opportunity to earn dual credit through Waubonsee Community College for EDU200 Introduction to Education 3 credit hours.
There is an additional fee per credit hour.

NOTE: Students enrolled in this course will need to provide their own transportation to placements.

Clinical Experience in PreK-12 Education

Grade: 12
Prerequisite: Introduction to Pre-K 12 Education OR Year 1 course in sending school education sequence and teacher recommendation
2.5 Credits for the year
This course provides the opportunity for students to further develop skills to teach and guide others. Coursework includes opportunities for students to create and develop teaching objectives, design lesson plans, and experience teaching in a controlled environment. Through experiential learning, students will examine and practice teaching strategies for different learning styles, classroom management, evaluation and assessment techniques. Students will explore career opportunities and develop or expand their career portfolios by spending time in a classroom setting.
Students have the opportunity to earn dual credit through Waubonsee Community College for Clinical Experience in Education 3 credits. There is an additional fee per credit hour.

NOTE: Students enrolled in this course will need to provide their own transportation to placements. All students must complete a background check as part of the class. There is no additional fee for this.

Upon completion of FVCC Clinical Experience in PreK- 12 course:

You could qualify for a position as:

Associate of Applied Science:

- Child Care Center Director
- Child Care Center Assistant Director
- Infant / Toddler / Preschool Teacher
- Paraprofessional
- Staff positions within schools

Bachelor Degree:

- Certified Teacher

Health Occupations

This program is for you if:

- Are in good physical condition
- Like to care for people
- Have good communication skills
- Have good organizational skills
- Like to work with a team

*** Anticipated fees may be adjusted depending on cost of materials and supplies.**

Basic Nurse Assistant Training Program (BNAT)

Grades: 11,12
2.5 Credits for the year
Prerequisites: Read at a ninth grade level, perform basic math skills, lift 50 pounds with no restrictions, be 16 years of age, and have a valid social security number. Students should show emotional maturity and be in good physical health. **Note: this is a full year course with clinicals.**

Special requirements for BNAT students:
All students must purchase a FVCC scrub uniform and white shoes, gait belt and vital sign equipment for clinical sites. Also, a watch with a second hand is mandatory to take vital signs. The law requires all persons involved in patient care at any health agency to have updated vaccinations such as a 2-step tuberculin skin test, hepatitis B vaccination series, MMR and varivax vaccination series as part of their yearly physical exam. Students must also pass a drug screen.

Students must provide their own transportation to off-campus clinical sites.
Certified Nursing Assistant (CNA). The CNA is responsible for giving nursing care. Upon completion of Health Occupations - BNAT, the student is prepared to take the Nurse Aide Training Competency Exam which allows for certification from the Illinois Department of Public Health.
Students may have the opportunity to earn dual credit through Waubonsee Community College for Basic Nurse Assistant Training NAS101 6 credits. There is an additional fee per credit hour.

Supply fees: $157 which includes, but is not limited to, manual/workbook, background check, CPR certification, and immunization portal.
Uniform & Equipment - +/-$190
FVCC covers the State CNA exam fee and provides each eligible student with a voucher for the CNA exam.

Upon Completion you may qualify for a position as:

- Certified Nursing Asst. (CNA)
- Health Care Assistant
- Pharmacy Technician
- Transporter
- Patient Care Technician
- Dietary Aide

Associate of Applied Science:

You could qualify for a position such as:

- Occupational Therapy Assistant
- Dental Hygienist
- Dietetic Technician
- Registered Nurse
- Physical Therapist Assistant
- Medical Laboratory Technician
- Respiratory Technician
- Massage Therapist

Bachelor Degree:

You could qualify for a position such as:

- Dietician
- Medical Technician
- Nursing Administrator
- Nursing Instructor
- Registered Nurse
- Athletic Trainer

Exploring Medical Careers (EMC)

Grades 11, 12
Prerequisite: A/P Course is highly recommended. Students should have excellent reading and writing skills, good physical health and emotional maturity.
Note: this is a full year course with clinicals.
2.5 Credits for the year
In this course, students learn anatomy/physiology, medical terminology, as well as techniques and procedures while visiting various health care facilities for a first-hand view of careers. The first semester concentrates on exploring areas of interest, such as physical therapist, physician, registered nurse, radiological technician, respiratory therapist, pharmacist, and electrocardiogram technician. The second semester provides an internship experience to allow students to do an in depth study of the profession in health care facilities.

Special requirements for EMC students:
All students must purchase a FVCC scrub uniform and white shoes. The law requires all persons involved in patient care at any health agency to have updated vaccinations such as a 2-step tuberculin skin test, hepatitis B vaccination series, MMR and varivax vaccination series as part of their yearly physical exam. Students must also pass a drug screen.
Students must provide their own transportation to off-campus clinical sites.

Supply fees: $250 which includes, but is not limited to, manual/workbook, background check, CPR certification, and immunization portal.
Uniform-+/-$100

Students may have the opportunity to earn dual credit through Waubonsee Community College for Medical Terminology for Health Occupations HIT110 3 credits. There is an additional fee per credit hour.

Law Enforcement

This program is for you if you:

- Are interested in a career in the Criminal Justice System
- Are a social person who likes to work with people
- Are detail-oriented
- Are able to work under stress
- Are able to make good sound judgements

Program Description:

Students will learn about the philosophy of law enforcement and criminal justice systems. The organization of local, state, and federal agencies and their jurisdictions will be discussed. In addition, students will also survey professional career opportunities and qualifications. Areas addressed will include patrolling, use of force, report writing, situational awareness, and de-escalation. This program allows students the opportunity to learn essential knowledge for preparedness to work in policing but does not cover the professional course that leads to police licensing.

Some tools the students will learn to use include: handcuffs, radios, squad car, riot batons, inert chemical munitions and more.

Students have the opportunity to earn OC, Stop the Bleed, and BLS CPR certifications.

*** Anticipated fees may be adjusted depending on cost of materials and supplies.**

Law Enforcement I

Grade: 11,12
Prerequisite Criminal background check
2.5 Credits for the year
The Law Enforcement program is designed to prepare people for careers in federal, state, and local law enforcement agencies, in correctional agencies and institutions, and in private security agencies. Students will be introduced to the criminal justice system, local, state, and federal

Law Enforcement I cont'd:

agencies and their jurisdiction responsibilities. Communication skills, observation, reporting and record keeping as they pertain to law enforcement will be studied. Students will be introduced to patrolling and field operations. Students will be involved in interviewing techniques, searches, use of force, preliminary investigations, police security, pursuit and arrest, and de-escalation. They will also be introduced to additional training for people already involved in law enforcement that lead to administration, correctional administration, forensic science, and security management. Students study the roles and activities of people regarding maintaining law and order, providing services, protecting lives and property, and conducting administration, planning and research. Students may participate in off-campus activities such as demonstrations and tours.
Uniform cost is the students responsibility

Law Enforcement II

Grade: 12
Prerequisites: Law Enforcement I and Instructor recommendation / criminal background check
2.5 Credits for the year
The Law Enforcement II course is an extension to Law Enforcement I. There is heavy emphasis on report writing, crime scene investigating and processing, and patrolling and field operations. There is also a major overview and analysis of the juvenile justice system in the U.S. covering the history and philosophy of society's reaction to juvenile behavior and problems. Interaction among the police, judiciary, and corrections are examined within the context of cultural influences. Theoretical perspectives of causation and control are introduced. Students will finish the second half of the year in the field of corrections. We will cover the history, evolution, and philosophy of punishment and treatment; operation and administration in institutional settings, and issues in constitutional law. Students will identify the structure and operations in the corrections system for adults and youth. Students will also be more

Law Enforcement II cont'd:

involved in leadership roles for assisting with instruction for Law Enforcement I, helping demonstrate lessons, and getting introduced to supervisory roles such as the relationship between officer and sergeant.
Uniform cost is the students responsibility

Upon Completion you may qualify for:

- Security Personnel
- Investigation Technician
- Compliance Officer

Associates of Applied Science:

- Corrections Officer
- Police Officer
- State Trooper
- Sheriff's Deputy

Bachelor Degree:

- Supervisor
- Criminologist

Welding Technology

This program is for you if:

- Are interested in mechanical things
- Are accurate and careful
- Have the ability to concentrate on detail work
- Have good hand-eye coordination
- Have good manual dexterity

Program Description:

Welding is the term used to describe numerous methods of joining metals. Welding is the primary process of repairing and fabricating metal components. There are many challenging career opportunities in this field and all indications show an increase in openings as the 21st century moves forward.

*** Anticipated fees may be adjusted depending on cost of materials and supplies.**

Welding I

Grades: 11,12
Prerequisite: None, but introductory industrial technology courses are recommended.
2.5 Credits for the year
This introductory course is designed to help students master skills in the following areas: shielded arc welding, gas metal arc welding, tungsten metal arc welding, oxyacetylene welding, brazing, flame cutting and the fundamentals of weld shop fabrication. Other manufacturing skills include shop and machine maintenance, welding materials and blueprint reading. Welding I students will be tested on the various processes they learn in this class. Students must supply their own steel toe shoes / boots, safety glasses, heavy leather gloves, work shirt, and necessary tools.
Students have the opportunity to earn articulated credit for WLD 100 Survey of Welding 3 cr and WLD 115 Oxy-Fuel Welding & Cutting 3 cr. See page 6 for more information.

Welding II

Grade: 12
Prerequisite: Welding I and teacher recommendation
2.5 Credits for the year
This course will utilize the concepts practiced in Welding I with more in-depth specialization. A higher level of competency is expected. The course material will be developed around problem solving fabrication equipment, operational procedures, production layout, technical function, pipe welding, and necessary tools / materials. Students must supply their own steel toe shoes / boots, safety glasses, heavy gloves, work shirt, and necessary tools / materials.
Students have the opportunity to earn articulated credit for WLD 120 Shielded Metal Arc Welding I 3cr. See page 6 for more information.

Upon completion of FVCC Welding, you may qualify for a position such as:

- Pipe Welder
- Arc Welder
- Spot Welder
- Tungsten Metal Arc Welder
- Fabricator
- Weld Shop Owner

Associate of Applied Science

- Construction Welder
- Production Welder

Bachelor Degree

- Welding Instructor
- Welding Engineer