



2025-2026

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

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



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General 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.

Career Placement Services

FVCC career placement services provide students with information and employment skills that will assist them with their education and career plans.

Opportunities include guest speakers, field trips, job shadowing, internships and apprenticeships that are coordinated through our work based learning coordinator.

A work based learning coordinator is available who works with the student and their home school counselor to meet each student's unique and individual vocational, occupational, and career needs.

REGISTER ONLINE @
FOXVALLEYCC.ORG

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 daily sessions 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.

Individuals with Special Needs

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 or 504 plan, please contact our Assistant Director, Ms. Vida Martin at 84536@kaneland.org or (630) 365-8245.

Click Course Request Form
FOXVALLEYCC.ORG

Internships and Job Shadowing

FVCC offers off-campus internships and apprenticeships 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, internships, and apprenticeships based on the recommendations of their instructors, counselors, career placement coordinator, employers, 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, career placement 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 career placement 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 career placement coordinator. The business employer will also give a final evaluation of the student's performance.

The program instructor, career placement coordinator, 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 career placement 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 local, regional, state and national competitions. Over the years FVCC students have won numerous awards.

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.

FVCC WCC College Credit

Classes

Waubonsee Community College: Articulated or Dual Credit

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

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.

Please see the next couple pages to view our Program Chart for prerequisites, costs/ supplies, and early college credit and certifications by program.

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. Students must choose EITHER articulated credit OR dual credit.

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.

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. Second year students may have the opportunity to take industry-recognized ASE certification exams.

Automotive Technology I

Grades: 11,12

Prerequisite: None. Any previous Industrial Technology course recommended.

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.

FVCC Course Fee: \$45.00

Automotive Technology II

Grade: 12

Prerequisite: Successful completion of Automotive Technology I and teacher recommendation.

2 ½ Credits

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.

FVCC Course Fee: \$45.00

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

Bachelor Degree:

You could qualify for a position such as:

- Insurance Claim Manager
- Dealership Service Manager
- Dealership Sales Manager
- Design Researcher
- Manufacturer's Representative
- Auto / Diesel Instructor

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.

Preferred course sequence is: PC Repair 10th Grade; 11th for Pre-Cybersecurity; 12th Cybersecurity. **Classes can be taken as a stand alone course as well.

PC Repair (COMPTIA A+)

Grades: 10, 11, 12

Prerequisites: Some familiarity with computers (have used a Windows machine for basic tasks)

2 ½ Credits

Do you like to take things apart, figure things out and experiment with technology? This course is for you! We practice the following hands-on skills: soldering, wiring, computer repair, building computers, software installation, and the finer points of Microsoft Windows. Our goal is to prepare for the Comp TIA A+ Exam. The A+ exam is the industry standard for IT professionals. Other amazing opportunities include field trips, guest speakers, Arduino building / programming, and Lego Robotics. Students who complete this class with a grade of B or better can receive articulated credit with Waubensee Community College.

FVCC Course Fee: \$30.00

Game Programming and Technologies

Grades: 11,12

Prerequisites:

- Completing a Programming Course; OR
- Successful completion of Algebra I.

2 ½ Credits

Students who enroll in Game Technologies will study various game genres, purposes and platforms. The class will learn the basics of C# and use this language to create simple games. Students will have an opportunity to experience the many careers associated with game development, including most aspects of game design and development.

Professional design documents will be developed, and students will use those documents to create various gaming environments. The more popular game technology tools will be taught, including various game engines and 2D and 3D tools. There will be a unit on Blender and the Unity game engine.

FVCC Course Fee: \$30.00

PreCybersecurity (COMPTIA Networking+)

Grades: 11,12

Prerequisites: PC Repair recommended

2 ½ Credits

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.

FVCC Course Fee: \$30

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 ½ Credits

Students who enroll in Cybersecurity will be studying for the CompTIA Security+ exam. This exam is the industry standard for Cybersecurity professionals. This course includes simulations and multiple operating systems. Units in this course include: understanding attacks; defense planning; access control; cryptography; network monitoring; security policies; risk management; and social engineering. Our class will also enter Cybersecurity competitions such as the National Cyber League. Students will gain hands-on knowledge of cybersecurity tools, as well as the opportunity to earn certification for future employment.

FVCC Course Fee: \$30.00

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.

Cosmetology I

Grades: 11,12

Off Campus Class (Various locations)

Prerequisite: None

3 credits

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.

Cosmetology II

Grade: 12

Off Campus Class (Various locations)

Prerequisite: Cosmetology I and teacher recommendation

3 Credits

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 and Residential Wiring

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.

Electrical Systems Wiring I- Residential Wiring

Grades: 11, 12

Prerequisite: None, but a solid math background helps

2 ½ credits

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.

FVCC Course Fee: \$45.00

Electrical Systems II - HVAC

Grade 12

Prerequisite: Electrical Systems I and teacher recommendation

2 ½ Credits

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.

FVCC Course Fee: \$45.00

See next page for additional information.

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 Technician

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.

EMT - Emergency Medical Technician

Grade: 12

Prerequisite: Grade of B or greater in Biology OR consent from instructor. Recommended course Junior year is Exploring Medical Careers OR Anatomy and Physiology at your home school.

2 ½ Credits

The Emergency Medical Technician (EMT) education program is a National Registry course that will prepare students to become competent, entry level EMTs in order to serve in volunteer and / or professional career positions in the United States.

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

FVCC Course Fee: \$30.00 which includes background check. Uniform cost is approximately \$100, and the EMT textbook and supply fee is \$227. Drug screen, TB test, and vaccines are the students responsibility.

When students are taking part in clinical hours at an area hospital, 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.

Fire Science I

Grades: 11,12

Prerequisite: None ; 2 ½ credits

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 I, Fire Science II program to simulate real life emergency scenarios. Fire Science is a dual credit program with Waubonsee Community College.

*There is a processing fee per credit hour for college credit. FVCC Course Fee: \$45 + uniform.

Fire Science II

Grade: 12

Prerequisite: Fire Science I and teacher recommendation.

2 ½ Credits

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.

*There is a processing fee per credit hour for college credit.

FVCC Course Fee: \$45.00 + uniform cost

If you have completed 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
- Specialty Certification

Foundations of 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.

Each Foundations of Education class is a full year. Students are encouraged to plan in advance to take both classes, however, 12th grade students can enroll in Foundations of Education I. Both Foundations of Education courses are dual credit classes through Waubensee 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.

Foundations of Education I

Grades: 11, 12

Prerequisite: Child Development courses through home schools are strongly recommended and preferred.

2.5 Credits

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.

FVCC Course Fee: \$80

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

Foundations of Education II

Grade: 12

Prerequisite: Foundations of Education I and teacher recommendation

2.5 Credits

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.

FVCC Course Fee: \$80

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.

If you complete the FVCC Foundations of Education course:

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

Program Description

Health Occupations is a broad title for a multitude of occupations in the Health Care System. A student in the Health Occupations program is trained in basic patient care and medical terminology.

Special requirements for Health Occupations:

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; or a religious exemption. Students must also pass a drug screen and health care worker criminal background check. Students who receive a grade of B or better can receive college credit. **Students must provide their own transportation to off-campus clinical sites.**

Basic Nurse Assistant Training Program (BNAT)

Grades: 11,12

Prerequisites: Read at an eighth 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.

2 ½ Credits

Health Occupations introduces various health concepts and trains them to work as a 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.

FVCC Course Fee: \$30

Supply fee: \$200 for supplies, books, and background check. Additionally, uniform and equipment is approximately \$200. 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 ½ Credits

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. First semester concentrates on exploring areas of interest, such as physical therapist, physician, registered nurse, radiological technician, respiratory therapist, pharmacist, and electrocardiogram technician. Second semester provides an internship experience to allow students to do an in depth study of the profession in health care facilities.

Students must provide their own transportation to off-campus clinical sites.

FVCC Course Fee: \$30 + \$200 for supplies, book and background check.

Additional costs include uniform, drug screening, and a TB test.

Upon Completion you may qualify for a position as:

- Patient Care Tech (PTC)

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.

Law Enforcement I

Grade: 11,12

Prerequisite Criminal background check

2 ½ Credits

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 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.

FVCC Course Fee: \$25.00+uniform fee

Law Enforcement II

Grade: 12

Prerequisites: Law Enforcement I and Instructor recommendation / criminal background check

2 ½ Credits

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 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.

FVCC Course Fee: \$25 +uniform fee

Upon Completion you may qualify for:

- Security Personnel
- Investigation Technician
- Compliance Officer

Associates of Applied Science/*Bachelor Degree:

- Corrections Officer *Supervisor
- Police Officer *Criminologist
- State Trooper
- Sheriff's Deputy

Project Lead the Way: **Biomedical Sciences**

<https://www.pltw.org/curriculum/biomedical-science>

This program is for you:

- Are interested in a career in health sciences or research, personal health, and the human body
- Love to solve real-world problems
- Are interested in medical technology
- Are interested in public health issues

Program Description

The Fox Valley Career Center's Biomedical Sciences Program is a set of four courses which follow the approved Project Lead

The Way (PLTW) program's hands-on, real-world problem solving approach to learning. Students explore the concepts of human medicine and are introduced to bioinformatics, including mapping and analyzing DNA. Through activities like dissecting a heart, students examine the processes, structures and interactions of the human body - often playing the role of biomedical professionals to solve mysteries. They also explore the prevention, diagnosis and treatment of disease. These are one semester classes.

Principles of the Biomedical Sciences (PBS)

Grades: 10,11,12

Prerequisite: Be able to work independently, strong study skills, good attendance, and can work independently and as part of a group.

1 ¼ Credits

Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical

treatments that might have prolonged the person's life.

Activities and projects introduce students to human physiology, medicine, research processes and bioinformatics. Key biological concepts including homeostasis, metabolism, inheritance of traits and defense against disease are embedded in the curriculum. Engineering principles including the design process, feedback loops and the relationship of structure to function are also incorporated.

This course is designed to provide an overview of all the courses in the Biomedical Sciences Program and lay the scientific foundation for subsequent courses.

FVCC Course Fee: \$30

*Textbook and Supplies; this includes cost for safety goggles and lab book; an additional \$25.00

Human Body Systems (HBS)

Grade: 11,12

Prerequisite: Principles of Biomedical Science or completed Biology

1 ¼ Credits

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on skeletal models, use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration, and take on the roles of biomedical professionals to solve real world medical cases.

Fee \$30

*Textbook and Supplies; this includes cost for safety goggles, and lab book, will cost an additional \$25.00 (subject to change based on enrollment)

independent research project with a mentor or advisor from a university, medical facility, or research institution.

FVCC Course Fee: \$30.00

PLTW Course Completion:

These courses lay the foundation for future studies in the following areas:

- Anatomy and Physiology
- Physical Therapy / Rehabilitative Services
- Sports Medicine / Athletic Trainer
- Laboratory Research - understanding proper techniques and documentation processes
- Healthcare or Field of Medicine

These courses expose students to:

- Scientific Experimentation
- Design Process Skills
- Professional Skills
- Course knowledge
- Equipment and Software Proficiencies
- Clinical Skills
- Laboratory Skills
- Engagement Experiences - role playing, case studies etc.

FUTURE COURSES in the Sequence:

Below are courses currently not offered for the 24-25 school year at Fox Valley Career Center, but we hope to offer them in the future. These courses build on each other so as students complete the prerequisites the goal is to offer more advanced PLTW courses.

A link to learn more about PLTW is available:

[PLTW Biomedical Science Curriculum](#)

Medical Interventions (MI)

Grades: 11,12

Prerequisite: Human Body Systems or Principles of Biomedical Science

1 ¼ Credits

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through cases, students learn about a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. FVCC Course Fee: \$30.00

Biomedical Innovations (BI)

Grade: 12

Prerequisite: Completion of all Biomedical Foundation Courses.

1 ¼ Credit

In the final course of the Biomedical Science sequence, students build on the knowledge and skill gained from previous courses to design innovative solutions to the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. Students have the opportunity to work on an



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.

Welding I

Grades: 11,12

Prerequisite: None, but introductory industrial technology courses are recommended.

2 ½ Credits

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.

FVCC Course Fee \$75.00

Welding II

Grade: 12

Prerequisite: Welding I and teacher recommendation

2 ½ Credits

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.

FVCC Course Fee \$75.00

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