



Education Today...Skills For Life  
Celebrating 50 Years of Skills

COURSES

- Automotive & Diesel Technology**
- Certified Nurse Assistant**
- Computer Maintenance**
- Construction Trades**
- Criminal Justice**
- Culinary Arts**
- Cyber Security/Networking**
- Digital Media/Graphics**
- Early Childhood Education**
- Emergency Medical Technician**
- Engineering & Architectural Design**
- Fire Fighting**
- Inter-Related Cooperative Education**
- Manufacturing**
- Medical Terminology & Health Careers**
- Welding Technology**

## LIVINGSTON AREA CAREER CENTER

1100 East Indiana Avenue  
Pontiac, Illinois 61764  
ph 815-842-2557  
fax 815-842-1005  
www.livcareer.org

## Engineering & Architectural Design

Engineering and Architectural Design is a hands-on STEM (Science Technology Engineering and Mathematics) based course offered to students who have ideas they want to take from a concept and turn into a reality. This is a two-year program, although students can take one year. Students will gain experience with creating designs using Autodesk

ate 2D objects, 3D modeling, as well as architectural drawings. Students will gain firsthand experience utilizing the software to create models in 3D printers or CNC machines. This equipment allows the students to use those ideas, inventions or innovations and create a physical model or prototype out of plastic or wood. During the year students will also have a chance to

tural competitions, as well as creating bridges and foam houses. Students who take this course can go on to careers in tural Design, Architects, and Animators. Students are able to get certified in all of the software being utilized in class, as well as earn 9 hours in dual credit with Heartland Community College if they take both years of class.

HCC 9 credits

## Fire Fighting

This program allows students to explore and prepare for a possible career in the Fire Service or the opportunity to volunteer in their communities. Year one students are taught by professional firefighters. Technical and manipulative skills that are taught in class coincide with the Illinois Office of the State Fire Marshal's Basic Operations Firefighter Certification. While the students are not able to be certified in class they have the opportunity to receive the same training that a beginning firefighter would receive during their first year of service. Skills and knowledge taught in the class include: fire behavior, safety, self-contained breathing apparatus turnout gear use, deployment of ground ladders, fire hose and appliances, operation of nozzles, and forcible entry. American Heart Association BLS Healthcare CPR Provider is also taught and students will receive certification upon completion of the unit. Year two students transition from firefighter level task into a supervisory role as a company officer. In

ership, supervision, management, and instructing Fire Fighting I students during fire company drills. Fire Fighting is a two-year program, although students can take one year.

CPR Certified

## Inter-Related Cooperative Education

Inter-related Cooperative Education is designed for senior students interested in pursuing careers in various occupations. Students will be released from school for their paid cooperative education work experience and will participate in 200 minutes per week of inter-related classroom instruction. Classroom instruction focuses on providing students with job survival skills and career exploration skills related to the job and improving students abilities to interact positively with others. The course contents includes the following broad areas of emphasis: further career education opportunities; planning for the future, job seeking skills, personal development, human relationships, legal protection, and responsibilities, economics and the job, organizations, and job termination. Written training agreements and individual student training plans will be developed and agreed upon by the employer, student and coordinator. The coordinator, student and employer assume compliance with federal, state, and local law and regulations. No student will be denied access or enrollment into the Cooperative Program because of race, color, sex, national origin or physical handicap.

## Manufacturing

This course provides an overview of how robotics and computer numerically controlled machines (CNC) drive the manufacturing of a variety of industrial and commercial products we use every day. Students will learn how to read blueprints; use precision instruments, scanners, and run a robot and CNC. Students will use their skills at hands-on projects and feel confident to continue their education after high school with an apprenticeship or associate's degree for even greater opportunities.

**\*This course has been dual credited with Heartland Community College.**

**Dual credit obtained with:  
HCC - Heartland Community College  
JJC - Joliet Junior College**

ALL COURSES WILL BE OFFERED  
IF ENROLLMENT IS SUFFICIENT.

## Medical Terminology & Health Careers

This course will provide a solid foundation of Medical Terminology and relate that terminology to various health related careers. Emphasis will be placed on correct spelling, pronunciation and abbreviation use. Combining prefixes, roots, and suffixes to form appropriate terminology and relate that terminology to body structure and function, disease and disorder processes, and medical/surgical procedures will be the structure of the course. The course is focused on providing the student with a basic working knowledge of medical terms and applying those terms to the health care field. Clinical experience and job shadowing will be offered as part of the course.

HCC 3 credits CPR Certified  
HIPPA Training/Certification

## Welding Technology

This program is designed to provide students with the knowledge and skills of both procedures and techniques associated with welding and fabrication/manufacturing processes. The first year introduces the basic skills and techniques required to work safely and efficiently

ing and manufacturing. The second year of this program uses the basic skills as building blocks, along with more information about fabrication/manufacturing so students can start to create products, and gain a better understanding of quality control and the running of a small business. Upon successful completion of the program, the student will be able to demonstrate those necessary skills, both cognitive and manipulative, so they may obtain entry level employment in this field or continue ment opportunity, a few include: Welding Engineer, Certified tor, Boilermaker, Shipbuilder, Iron worker, or business owner. After completion of the second year, students can graduate with 9 hours in dual credit with Heartland Community College; OSHA 10 Hour safety Certification; AWS SENSE Entry-level Welding Certification; and nology is a two-year program, although students can take one year.

HCC 9 credits AWS Certification  
1 credit OSHA Certification  
CPR Certified/First Aid

**Student Leadership/Organizational Opportunities at Livingston Area Career Center include:**

- Health Occupations Student of America (HOSA)
- Law Enforcement Club
- National Technical Honor Society (NTHS)
- Skills USA
- Technology Club
- Teachers of Tomorrow Club

## Automotive & Diesel Technology

Automotive and Diesel Technology is a class that incorporates Basic Automotives, Diesel Repair, and Agriculture Repair. This class gives students the opportunity to visit all aspects of the automotive industry, not just cars and pick-up trucks. The amount of technician jobs in the trucking, construction, and agriculture industry is growing at an alarming rate, and students need to be aware of the opportunities at hand. In year one of the class, the students will learn air conditioning systems, brakes, and diesel engine fuel systems and electronics. The second semester will focus on electrical diagnostics, data logging computers, and in depth engine repair. The lab area will allow students to get these real world experiences and many more opportunities to have hands-on training by community members bringing vehicles into the lab to be repaired or serviced. Year two students focus on in-depth problem solving and becoming more advanced in.

Valvoline Oil Education Certification

## Certified Nurse Assistant (CNA)

The Certified Nurse Assistant program is a one year course open to junior and senior students interested in the healthcare field. The course will help the student to prepare to enter the work force as a C.N.A. or continue to further their education. The course covers basic anatomy, basic nursing skills, and other career ready skills. The students also practice their skills in the clinical setting. This program is approved by the Illinois Department of Public Health. **Upon successful completion, the student is eligible to sit for the state of Illinois competency exam to become a Certified Nurse Assistant.** CPR Certified HCC 8 credits

## Computer Maintenance

The Computer Maintenance course provides instruction in the area of maintenance and repair of computers and computer-related equipment. Students will also receive some instruction on installing and servicing networks, repairing or replacing faulty mechanical or electronic parts, and giving technical advice on ways to keep equipment in good operating condition.

A solid foundation of theory on how a computer and other peripherals work is covered. Students will participate in building the PC they will use for the course. Customer service, work orders, and technical reports will be reviewed in detail and practical experience will be utilized. The development of employability skills, as well as transition skills and ics will be included in the course. Students may also participate in tech internships throughout the area. The Computer Maintenance course is a two-year course, although students can take one year. HCC 10 credits A+ Certification

## Construction Trades

Designed for the beginning student, Construction Trades I gives the opportunity to develop knowledge and skills in the use of basic hand and power tools, materials, processes, safety, and other related items as associated with the construction industry. The student will be expected to develop good habits in the areas of work ethics, cooperation, attendance, attitude, leadership, and dependability. Construction Trades II students will be considered experienced and will be expected to advance their skills and knowledge to an employable level. More responsibility will be placed upon these students, and they will be given the opportunity to develop leadership traits to their maximum as foremen or crew leaders. Students in both courses will have experiences in building a house including concrete work and masonry, when applicable, rough and finish carpentry, drywall application and finishing, hardwood flooring and tile applications. Related instruction will be given in site selection and development, building codes and ordinance, blueprint reading, measurement and related math, trade terminology, materials application, occupational information, and safety. Construction Trades is a two-year program, although students can take one year.

## Criminal Justice

The purpose of the classroom portion of this course is to introduce the student to the study of the American Criminal Justice System and actors that comprise the police, the courts, and corrections. Classroom instruction will include lectures, discussion, videos, guest speakers, and group activities. The purpose of the lab portion of this course is to introduce the student to basic law enforcement procedures. The student will receive basic training in the areas of the following: patrol techniques, crime scene processing, handcuffing, officer safety and survival, and fingerprinting. Lab instruction will include simulations, demonstrations, training videos, field trips, guest speakers, and local job shadowing. Criminal Justice is a two-year program, although students can take one year.

HCC 3 credits  
CPR/AED Certification

## Culinary Arts

This program provides students with information and experience relating to the planning, selecting, purchasing, preparing and serving of foods. Coursework includes the study of terminology, nutritional values, culinary math, quantity cooking, storage, equipment, sanitation, and knife skills. Students develop skills through practical experience in the lab and on extended campus. Additional content may include: catering, event planning, customer service, food service styles, menu styles, baking and pastry arts, hors d'oeuvres, breakfast cookery, meat selection and preparation, soups, and sandwiches. Year two places emphasis for students to develop operational management skills. Content includes organization of food service systems, human relations, personnel training, and supervision. Employability skills will be emphasized throughout the two year sequence. Students will test for their ServSafe Manager's Certification. Culinary Arts is a two-year program, although students can take one year.

JJC 2 credits ServSafe Manager Certification  
Illinois Food Handlers

## Cyber Security/Networking

The Computer Networking course is designed to give students hands-on applications and internet driven lessons to gain experiences in network design, configuration, wiring and setup. Each student will successfully design, build, and maintain small to medium-sized networks. Students may also participate in internships throughout the area. This program will give students the opportunity to enter the workforce and/or further their education and training in the computer networking field. The students that successfully complete the two-year program will be able to pursue the cation. The Computer Networking course is a two year course, although students can take one year. HCC 19 credits CISCO Certified

## Digital Media/Graphics

This course is designed to provide students with the skills needed for a career in the fields of advertising, commercial art, graphic design, website development, and graphic illustrator. Students learn to apply artistic design and layout principles along with text, graphics, drawing, rendering, sound, video, and 2D/3D animation integration to develop various print, video, and digital products. Students use hardware and software programs to create, manipulate, color, paint, and layer scanned images, computer graphics, and original artwork. Students will use hardware and software to capture, edit, create, and compress audio and video clips. They will apply artistic techniques to design and create advertisements, displays, publications, technical

illustrations, marketing brochures, logos, trademarks, packaging, video graphics, and computer-generated media. Students will work in a project-based environment to create a variety of interactive online products and will create dynamic web pages and sites using HTML, HTML editors, and graphic editors. Instruction includes client interviewing skills, product proposal development, product presentation techniques, and how to create a product portfolio. Digital Media/Graphics is a two-year program, although students can take one year.

## Early Childhood Education

In the first year of ECE, areas of development from birth through age 8 are covered. Curriculum styles and observation methods are introduced and practiced. Students prepare for operation of a lab preschool. Students prepare a professional portfolio including resume, cover letter, lesson plan samples, and class work. Students earn a Level I Early Childhood Education Credential. In year two, emphasis is placed on the management aspects of the lab preschool as well as various early childhood programs. Students explore program types including philosophies and goals, program quality, licensing and registration laws, budgeting, staffing, inventory management, and public relations. Students in good standing will be given the opportunity to intern at local early childhood sites. Early Childhood Education is a two-year program, although students can take one year.

HCC 6 credits CPR/First Aid

## Emergency Medical Technician (EMT)

The EMT-Basic course is a cooperative joint venture between OSF Saint James Medical Center and LACC and will be taught in accordance with the 1994 EMT-Basic National Standard Curriculum, and includes a minimum of 120 hours core didactic (classroom) hours and 20 ED non-classroom clinical hours. Classes will be comprised of lectures, demonstrations, and practical given by the instructors approved by the Illinois Department of Public Health and the Emergency Medical Services System. **At successful completion of the course, the students will have the opportunity to take the state of Illinois written exam and be licensed as an EMT-Basic.**

1.8 credits CPR Certified  
HCC 8 credits