



2021-22

CEANCI

EDUCATION

PROGRAMS



CEANCI Education Program Options

Automotive Technology



2 Year Program

Cosmetology



1 Year **SR Program**

Engineering



2 Year Program

Graphic Communications



1 Year Program

Medical Science



1 Year **SR Program**

Sports Medicine



2 Year Program



AUTOMOTIVE TECHNOLOGY



CAREER OPPORTUNITIES

Automotive Technician
Service Writer
Race Car Technician
Lubrication Technician
Independent Shop Owner
Diesel Technician
Automotive Instructor

CORE TASKS

Problem Solvers
Use of tools and diagnostic equipment
Repair and replace old parts
Perform routine maintenance

ABILITIES

Physically fit
Strong work ethic
Mechanically inclined
Analytical and logical
Communication skills

CERTIFICATIONS:

Valvoline Motor Oil Basics

Do you love the sound of a roaring engine and tinkering with machines? If so, you might want to consider a career as an automotive service technician. These technicians are also called mechanics. They usually have a passion for automobiles and enjoy figuring out how machines work by taking them apart and reassembling them. The main goal for techs is to keep vehicles working. They do this with regular maintenance and repairs. Their exact type of work depends on their training.

Some technicians learn their skills on the job but with today's complex automotive systems it is necessary to continue on with formal training after high schools. Technical schools and 2-year colleges offer these kinds of programs and can last 6 months to 2 years. They lead to a certificate or an associate degree. Voluntary certification is available for experienced technicians. It's not required to work in the field, but some employers prefer it. The National Institute for Automotive Service Excellence (ASE) certifies techs.

To get started, enroll in the CEANCI Automotive Technology program which is two years in length and located at Hononegah High School. Students in this program learn using state of the art technology and tools:

YEAR 1 is a course for high school juniors and seniors. Students will study automotive suspension/steering, brake systems, electrical/electronic systems, engine performance and vehicles services. Students will complete automotive industry theory and performance tasks for initial employment in the automotive service field or further training at the post-secondary level. Both classroom and lab activities are used to instruct students with heavy emphasis on hands-on lab activities using current model vehicles.



YEAR 2 is a course designed for high school seniors. During the 1st semester students will identify and interpret electrical problems and determine necessary actions. Students will be introduced to the diagnosis and repair of starting systems and electrical/electronic systems. During the 2nd semester students will identify and interpret brake system problems and determine necessary actions. Diagnosis and repair of hydraulic systems, drum and disc brakes. Both classroom and lab activities are used to instruct students, with heavy emphasis on lab activities using current model vehicles.

ENGINEERING

CAREER OPPORTUNITIES

Electrical Engineer
Engineering Technician
Engineering Instructor
Biomedical Engineer
Civil Engineer

CORE TASKS

Use math and science to solve problems
Help design and build
Study existing conditions
Layout processes
Supervise projects
Prepare reports

ABILITIES

Problem solving skills
Communication skills
Math and computer skills
Detail oriented
Computer skills

Engineers design and develop all different types of products and processes in every field imaginable – aerospace, biomedical, civil, electrical, computers, mechanical, nuclear – to name a few. Engineers use math and science to solve complex technical problems. Whatever the field, a lot of engineer’s duties are the same. They prepare technical drawings of products and systems. They use computer-aided design (CAD) software to create designs. They write performance requirements for their products and attend meetings to discuss their projects. Most engineers become experts in one area and can even specialize within a field.

To test your critical thinking skills, enroll in CEANCI’s 2-year Engineering program at Hononegah High School, where you will put science, technology, engineering and math to work solving important, interesting, real-world problems.



YEAR 1 students enroll in the *Introduction to Engineering Design* course where they discover the role of an engineer in taking an idea from the design process to manufacturing or production. They learn to use AutoDesk Inventor, animated 3D modeling software, to design solutions to engineering problems. Students will

produce a working prototype with one of the program’s 3D printers. Students work in teams to design and improve products, document and test solutions, and communicate their skills to others.

YEAR 2 students have two options:

Engineering Design & Development is an engineering research course. Students work in teams to research, design, and construct a solution to an open-ended engineering problem. The product development lifecycle and the design process guide the team in reaching a solution. At the end of the school year, the team presents and defends the solution to a panel of outside reviewers.

OR

Computer Integrated Manufacturing is a course that applies the principles of robotics and automation to Computer Aided Design (CAD). Students use Computer Numerical Control equipment to produce actual models of 3-dimensional designs. Fundamental concepts of robotics in automated manufacturing, and design analysis are included. Students use state of the art mills, lathes, and other manufacturing equipment.



GRAPHIC COMMUNICATIONS

We've all seen work of graphic designers. Just think of the famous company logos and graphics for Nike or Microsoft. Graphic designers' work appear in many places – magazines, brochures, packaging, and websites. Graphic Designers are experts in visual communication using color, photos, fonts, and other graphics to convey a message. Their aim is to tell a story or create a certain feeling. They help shape an identity for a product, service, or company. Their work can persuade, inform and entertain the public.

To launch a creative career in the world of graphic communications, enroll in CEANCI's Graphic Communications one-year program at Hononegah High School to take the following courses:

Students enroll in the *Introduction to Graphic Communications* course first semester and *Digital Design and Illustration* second semester.

Introduction to Graphic Communications is a foundational course that will give the student the opportunity to explore Adobe Illustrator, InDesign, and Photoshop. Along with learning industry leading software the student will have a hands-on experience that helps them identify different career opportunities related to the graphic industry.

Digital Design and Illustration will provide the student the opportunity to combine digital illustration with the world of print media. This hands-on class offers the student the opportunity to use Adobe Illustrator and a variety of production and finishing equipment to explore different print output.



CERTIFICATION:

Adobe Certified Associate Illustrator



CAREER OPPORTUNITIES

Photographer
Art Director
Graphic Designer
Graphics Instructor
Computer Animator
Exhibit Designer
Illustrator

CORE TASKS

Consult with clients
Prepare rough drafts of designs
Gather or create elements for illustration
Create a final product, poster, website

ABILITIES

Creative
Disciplined
Communication skills
Work well under pressure
Good with people

COSMETOLOGY



Today, if we want to enhance what Mother Nature gave us, we turn to cosmetologists. These beauty professionals improve the look of their clients' hair, skin and nails. Cosmetologists have training to do more than decorate and paint clients, they also know how to keep clients' hair, skin and nails healthy and in good shape.

CEANCI in cooperation with Educators of Beauty in Rockford, IL is pleased to offer Cosmetology to high school seniors. After completing the program part-time during their senior year, students will earn 200 hours of the 1,500 hours necessary to complete the program and sit for the state licensing board exam. Financial incentives are available to those students who choose to return to Educators of Beauty upon high school graduation to complete the program.

Students learn and refine skills in cuts, color, perms, nail care, aesthetics, and make-up. They will develop professional level techniques through practice and instructor demonstrations. They will also learn how aspects of chemistry, anatomy, and geometry are applied every day by cosmetology professionals. Student will use their skills through a full-service salon located on site.



EDUCATORS
OF BEAUTY | pivot point
MEMBER SCHOOL
COLLEGE OF COSMETOLOGY

CAREER OPPORTUNITIES

Esthetician
Hairstylist
Nail Technician
Pet Groomer
Makeup Artist
Image Consultant
Cosmetology Instructor

CORE TASKS

Cut, style, color hair
Provide makeup analysis
Give facials
Do manicures and pedicures

ABILITIES

Sense of style
Work well with hands
Enjoy working with people
Patient and sensitive
Willing to upgrade knowledge and skills

MEDICAL SCIENCE

Nurses play a key role in keeping people healthy. They may assess patients who are ill or injured and help doctors treat them. Health careers are the fastest growing occupations in our economy and their roles and places of employment are rapidly changing. If it's important to you to help others, you might want to pursue a career in this field. RNs or registered nurses are the most well-known of the various types of nurses. They need more educational than practical nurses and can perform a wider variety of tasks.



In CEANCI's pathway for students interested in the medical field, Senior students attend classes at Rockford Health Systems where they have multiple opportunities to observe and explore career options in this ever-changing field.



The student spends 2 hours a day at Mercyhealth Hospital learning a core of knowledge and skills needed for many health care fields. Students will have the opportunity to shadow various health care professionals such as physical therapists, nurses and x-ray technicians. In addition, safety, assessment (temperature, pulse, respiration and blood pressure), patient transport, personal care techniques and other general health care skills are addressed. Students will have the opportunity to obtain Illinois Nurse Assistant Certification approved by the Illinois Department of Public Health. The following medical requirements are necessary: Hepatitis B vaccine, a two-step Mantoux tb test, a physical, influenza vaccine, and documentation of current immunization status.

CERTIFICATION:

Illinois Nurse Assistant



CAREER OPPORTUNITIES

Medical Assistant
Licensed Practical Nurse
Registered Nurse
Physician's Assistant
C.N.A.

CORE TASKS

Perform physical exams
Provide medical treatment
Monitor results
Keep patients informed
Maintain records and charts

ABILITIES

Concern for people
Able to calm people
Communication skills
Decisive

SPORTS MEDICINE



CAREER OPPORTUNITIES

Occupational Therapist
Athletic Trainer
Physical Therapist
PE Teacher
Fitness Instructor

CORE TASKS

Assess and treat athletes injuries
Develop training programs
Provide players with braces, equipment for support
Teach exercises and stretches
Monitor patient progress

ABILITIES

Work well with hands
Communication skills
Enjoy helping people
Physical Stamina

Sports can be dangerous. That's part of what makes them exciting. Whether pro athlete or high school athlete, there's always some risk of injury. Careers in sports medicine help athletes prevent and recover from injuries.

Athletic Trainers and Physical Therapists' main goal is to return injured patients to a healthy life. They perform physical examinations, design treatment plans, and provide hands-on therapy where appropriate. Patients are an active part of their healing. AT and PT will teach specific stretches and exercises to get the patient progressing and back in the action.

Enroll in CEANCI's 2-year Sports Medicine program at Winnebago High School to learn more about this expanding career option.

YEAR 1 students a Health Science course that integrates skills and knowledge common to a wide variety of health care occupations. Student develop skills in First Aid, CPR, AED leading to American Red Cross Certification as well as additional health care skills. Throughout the course, students will be learning about careers in health care through classroom investigation, guest speakers and visits to career fairs and healthcare facilities. Students develop resumes and cover letters specific to healthcare careers.



YEAR 2 students enroll in *Sports Medicine* where the focus is on the role of the health care professional in maintaining the health of the physically active. Particular attention is paid to the prevention, evaluation, treatment, and rehabilitation of injuries and conditions common in physically active people. This course is intended for students seeking a career in the healthcare field. Time spent in observations of athletic team events and practices after school hours are required.

CERTIFICATION: American Red Cross First Aid, CPR, AED

Who is CEANCI

CEANCI serves as the Education for Employment office of north central Illinois. The state of Illinois is divided into Education for Employment regions which direct the state's Career and Technical Education (CTE) programs at a local level. The CEANCI region covers 1,075 square miles, and provides support to over 17,000 students 9-12 graders and more than 120 certified high school staff.

CEANCI is governed by a Board of Governors comprised of superintendents from each member district. Nine public school districts are members of this cooperative effort including Belvidere, Byron, Harlem, Hononegah, Meridian, North Boone, Rockford, South Beloit, and Winnebago.

The System provides regional career and technical programming among its member districts, supports CTE programs at member high schools, collects and reports data to the Illinois State Board of Education, and acts as a flow through for Carl Perkins and Career and Technical Education Improvement grant funds. Career and technical programming is provided in the occupational clusters of agriculture, business and information technology, health sciences, industrial technologies, and family and consumer sciences.

FAQs

WHAT ARE CEANCI EDUCATION PROGRAMS (CEP)

CEP are challenging, advanced programming within CTE, which are offered to region high school students. Many of the programs offer industry based credentials and certifications.

WHERE ARE REGIONAL PROGRAMS OFFERED

High Schools - Hononegah, Auburn - Rockford Health Systems, and Winnebago
Business Partners – Educators of Beauty

HOW DO I APPLY

Access the CEP application online at CEANCI.org. Note that seats are limited – have a discussion with your counselor as soon as possible.

WHO QUALIFIES FOR CEP

High school juniors and seniors – some programs require senior status. Some of the programs have additional requirements which your counselor is prepared to share with you.

WHAT IS THE COST

CEP tuition may be paid for by your school district; clarify this payment prior to applying. Students may be expected to oversee minimal costs for materials and equipment. Students may also provide their own transportation.

WHERE DO I GET INFORMATION

Your counselor

The CEANCI System Director – Margie Hartfiel (815) 921-8472 or email: m.hartfiel@ceanci.org