

FY19 CEP COURSE DESCRIPTIONS



AUTOMOTIVE TECHNOLOGY

**2 Years – High School Credits
Juniors and Seniors**

Hononegah High School

Auto Tech I is a year-long course for high school sophomores, juniors and seniors. Students will study automotive suspension/steering, brake systems, electrical/electronic systems, engine performance and vehicle 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 late model vehicles. Several field trips are taken each year, including a trip to the “New Car Show” at McCormick Place.

Auto Tech II is a year-long course designed for high school juniors and 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, charging systems, driver information 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 brakes, disc brakes, wheel bearings, power assist units, antilock brakes and traction control will be covered. Both classroom and lab activities are used to instruct students, with heavy emphasis on lab activities using late model vehicles. Students will participate in several field trips. Students can earn articulated credit from Rock Valley College for this class.

COSMETOLOGY

**Year Long Program – High School Credits/Licensure Hours
Seniors**

Educators of Beauty

During the one year program at Educators of Beauty a high school student will acquire 200 hours toward their 1500 hour training to become a licensed cosmetologist. Students are provided a well-rounded education in hair, skin, and nails – beautification and care. The training will cover draping, shampooing, rinsing, scalp massage, product and hair knowledge, facials, makeup, manicures and nail disorders. It will also include texture skills like perming, hair relaxing, and hair pressing. Students also work on bettering communication skills, sales techniques and how to build clientele as they develop the entrepreneur mindset necessary to be a successful cosmetologist.

ENGINEERING

2 Years – High School Credits
Junior and Seniors

Hononegah High School

Introduction to Engineering is a Project Lead the Way (PLTW), high school based engineering and technology, class. This course will cover the basics of all design skills including: sketching, processing and Computer Aided Design CAD using the 3-D modeling program Inventor. Students will be using computer hardware and software to complete and generate working CAD drawing. Hands on projects will include Puzzle Cube design challenge, Reverse Engineering, and a team design challenge. Math and research skills will be stressed and used on a regular basis. Course content will include documentation, research, sketching, drawing, modeling/prototyping, design principles/elements, reverse engineering, marketing, and testing.

Principles of Engineering is a Project Lead the Way (PLTW), high school based engineering and technology, class. In the class they will explore various technological systems and manufacturing processes that will help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit society. In addition, students will be using Inventor, which is a state of the art 3-D design software package, to help them design solutions to different design projects. Hands-on projects will include bridge building, simple machine design project, and marble sorting.

GRAPHIC COMMUNICATIONS

Year Long Program – High School Credits
Junior and Seniors

Hononegah High School

Introduction to Graphic Communications gives the creative student an opportunity to apply practical skills to bridge the gap between digital design and print production. Students will combine design and technology as they cover topics in publishing, printing, digital imaging, scanning and photography. This hands-on class offers students the opportunity to earn college credits through the PrintED national accreditation program. Students can also earn articulated credits from several two-year or four-year colleges after completing this class.

INTERNSHIP

Year Long – High School Credits
Seniors

CEANCI and Job Site

The *Internship* program combines related classroom instruction with on-the-job work experience, developing attitudes and technical skills through advanced instruction in both locations. Students are required to spend 2.5 hours a week in the classroom and 10 hours a week at the job site. Classroom instruction focuses on career exploration and providing students with job survival skills related to the job. An individual training plan is developed by the employer, student and program coordinator to ensure the student is continuing to grow and acquire skills and knowledge in their career area of interest. The coordinator, student and employer assume compliance with federal, state, and local laws and regulations. Students interested in this program will go through an interview with the program coordinator and employer prior to acceptance into the program.

MEDICAL SCIENCE

Year Long – High School Credits
Seniors

Rockford Health Systems
Illinois Nurse Assistant Certification

Medical Science is designed for students interested in a health care career. The student spends 2 hours a day at Rockford Health Systems 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.

VETERINARY TECHNICIAN

Year Long – 28.5 Quarter College Credits
Seniors

Rockford Career College
Veterinary Technician Associate of Applied Science

QUARTER 1 COURSES:

Veterinary Life Science 4.5 Quarter College Credits

Course prepares the vet assistant or vet technician who requires development in basic science for courses in anatomy, physiology, pharmacology, anesthesiology and clinical pathology. Anatomy of the cell and microscopic tissues will be analyzed

Veterinary Medical Terminology 3.0 Quarter College Credits

This course is designed to help the student gain a working mastery, both verbal and written, of the language of veterinary medicine. The course emphasizes the structure of medical words and word meanings based on the prefixes, root words, and suffixes found in combination. Emphasis is also placed on directional and descriptive terms.

Student Success Strategies 4.0 Quarter College Credits

This course explores the basic principles to achieve success in various settings including time and stress management strategies, study skills, professionalism, policies and procedures. Learning and communication methods will be explored in order to promote student success in school and in the workplace. Additionally, the student will learn basic word processing, presentation and spreadsheet software skills.

QUARTER 2 COURSES:

Professional Success Strategies 4.0 Quarter College Credits

This course is designed to prepare students for career success through a focus on professionalism. The course will emphasize the development of work and human resource skills and professional ethics. Students will learn how to portray professionalism in behavior, presentation, dress, and work ethic, and will also study the professional standards of their chosen industry.

Veterinary Office Management 3.0 Quarter College Credits

This course instructs the student in proper record keeping, client communication skills, OSHA regulations and guidelines, inventory, career opportunities, employment skills and assisting with client bereavement.

QUARTER 3 COURSES:

Veterinary Anatomy & Physiology 3.0 Quarter College Credits

This course provides an understanding of the basic anatomy and physiology of small and large animals in regard to the Skeletal, Muscular, Cardiac, Blood, Lymphatic and Nervous systems. Students participate in a lab to gain further understanding of anatomical structures.

Veterinary Anatomy Systems & Functions 3.0 Quarter College Credits

This course provides an understanding of the basics of anatomy and physiology of small and large animals in regard to the Endocrine, Sensory, Respiratory, Gastrointestinal, Urinary and Reproductive systems. Students participate in a lab to gain further understanding of anatomical structures.