

VILLA GROVE HIGH SCHOOL 2021-2022

AGRICULTURE

INTRO TO AGRICULTURE

This course provides an opportunity for students to learn how the agricultural industry is organized; its major components; the economic influence of agriculture at state, national and international levels; and the scope and types of job opportunities in the agricultural field. Basic concepts in animal science, plant science, soil science, horticulture, natural resources, agribusiness management, and agricultural mechanics, will be presented. Improving computer and workplace skills will be a focus.

AGRICULTURAL SCIENCE

This orientation course builds on basic skills and knowledge gained in the Introduction to the Agricultural Industry course. Major units of instruction include agricultural research, soil science, advanced plant science, biotechnology, advanced animal science. Applied science and math skills and concepts will be stressed throughout the course as they relate to each area. Improving computer and workplace skills will be a focus.

AGRICULTURAL BUSINESS

This course will develop students' understanding of the agricultural industry relating to the United States and World marketplace. Instructional units include: business ownership types, planning and organizing the agribusiness, financing the agribusiness, keeping and using records in an agribusiness, operating the agribusiness, agricultural law, taxes, and developing employability skills. Student skills will be enhanced in math, reading comprehension, and writing through agribusiness applications. Improving computer and workplace skills will be a focus.

AGRICULTURAL CONSTRUCTION

This advanced course focuses on the knowledge, hands-on skills, and workplace skills applicable to construction in the agricultural industry. Major units of instruction include: personal safety, hand tools, power tools, blueprint reading, surveying, construction skills in carpentry, plumbing, electricity, concrete, block laying, drywall and painting. Careers such as agricultural engineers, carpenter, plumber, electrician, concrete and block layers, finishers, safety specialists, and other related occupations will be examined. Improving workplace and computer skills will be a focus.

AGRICULTURAL MECHANICS

Content: This course will concentrate on expanding student's knowledge and experiences with agricultural mechanics technologies utilized in the agricultural industry. Units of instruction included are: design, construction, fabrication, maintenance, welding, electricity/electronics, internal combustion engines, hydraulics, and employability skills. Careers of agricultural construction engineer, electrician, plumber, welder, equipment designer, parts manager, safety inspector, welder, and other related occupations will be examined. Improving workplace and computer skills will be a focus.

ANIMAL SCIENCE

This course will develop students' understanding of the livestock (beef, dairy, sheep, goats, and swine), poultry, and large (equine) animal industry. Topics of instruction include scientific investigations, genetics, animal anatomy and physiology, animal nutrition, animal reproduction, animal health, and meat science. Improving computer and workplace skills will be a focus.

VETERINARY TECHNOLOGY

This course will develop students' understanding of the small and companion animal industry, animal anatomy and physiology, animal ethics and welfare issues, animal health, veterinary medicine, veterinary office practices, and animal services to humans. Career exploration will focus on veterinarian, veterinary lab technicians, office lab assistant, small animal production, research lab assistant, and animal nutrition lab technician. Improving computer and workplace skills will be a focus.

HORTICULTURE SCIENCE

This course is designed to introduce students to the horticulture industry and provide them with basic plant science knowledge that can be further developed in advanced horticulture courses. Major units of instruction include horticulture research, horticultural careers, plant anatomy, seed germination, plant propagation, growing media, pest management, identifying horticultural plants, growing greenhouse crops, and floral design.

GREENHOUSE MANAGEMENT

This course focuses on greenhouse management and the related segments of the horticulture industry. Major units of study include floriculture plant identification, greenhouse structures, and the culture of greenhouse crops. Also included are landscape design and the installation and maintenance of landscapes. Agribusiness units will be introduced in merchandising, advertising, sales, and operating a retail greenhouse. Improving computer and workplace skills will be a focus.

ENVIRONMENTAL SCIENCE

This course examines the relationship of agriculture and the environment. The impact of plant and animal production practices on the environment and the adoption of practices leading to improved air, land, and water quality are investigated. Areas of emphasis include: types of ecosystems, management of waste, chemical use, soil conservation, land uses and regulations, energy consumption and alternative energies, and water and air quality. Encouraging students to be conscious and concerned about the environment and recognizing the need to conserve the environment and its resources will be a theme throughout. Careers of environmental technicians, soil and water conservationists, monitoring field technicians, land surveyor, and related occupations will be examined. Improving computer and workplace skills will be a focus.

BIOLOGICAL SCIENCE APPLICATIONS IN AGRICULTURE

This course is designed to reinforce and extend students' understanding of science by associating scientific principles and concepts with relevant applications in agriculture. Students will examine major phases of animal agriculture and specific biological science concepts that govern management decisions in the animal industry. Topics of study are in the areas of growth and development of animals – microbiology, embryology, and immunity systems, and processing animal products – preservation, fermentation, and pasteurization. The course will be valuable preparation for further education and will increase the relevance of science through the applied setting of agriculture by enhancing literacy in science and the scientific process. Improving computer and workplace skills will be a focus.

ART

CERAMICS

Three-dimensional works will be produced in a range from simple pinching techniques to wheel throwing techniques. This is a “basics” class that will provide instruction in all hand-building techniques as well as a working knowledge of terms, preparation of clay through firing, and glazing and surface decorating. Functional pieces such as lidded containers and flowerpots are examples of projects produced in this course.

PAINTING

Students will learn how to prepare a canvas as well as how to select, use and care for painting materials. Mixing of paints, color theory, and critiquing skills will be incorporated. A series of paintings will be produced ranging from simple to complex subjects and involving different painting styles and periods.

ART SURVEY

This course will cover Drawing, Painting, Three-Dimensional, Animation, and Art History. This will encompass learning the skills, artists, terms, and techniques for each medium covered. The first semester of the course will focus on projects for two-dimensional works for drawing and painting while the second semester the focus will shift to three-dimensional, animation, and art history. There will be periodic tests given to evaluate understanding of the subjects taught.

3-D ART ANIMATION

The students will explore and create animations using a variety of techniques ranging from simple hand drawn 2-step animations to those completely composed on the computer. Students will be introduced to the history of animation from its humble beginnings to modern day techniques through handouts, lectures, videos, and hands-on experiences.

GRAPHIC DESIGN

Using skills learned in 2-D Design, students will learn methods for the production of various graphic images, CD ROM covers, automobile designs, advertisements, and logo and production designs.

JR/SR ART STUDIO

This course is for the serious art student looking to advance their skills and knowledge in the field of art. Students wishing to prepare for a career in the visual arts will be allowed to help plan a career specific study program to enhance their abilities in a given field of study. Students simply wishing for a deeper understanding of art and art making will be given choices that will focus on their particular artistic interests. Periodic tests will be given to gauge progress in this course.

BUSINESS EDUCATION

Business Graphic Design:

Courses teach students to use artistic techniques to effectively communicate ideas and information to business and customer audiences via illustration and other forms of digital or printed media. Topics covered may include concept design, layout, paste-up and techniques such as engraving, etching, silkscreen, lithography, offset, drawing and cartooning, painting, collage and computer graphics.

Intro to Business:

Courses survey an array of topics and concepts related to the field of business. These courses introduce business concepts such as banking and finance, the role of government in business, consumerism, credit, investment, and management. They usually provide a brief overview of the American economic system

and corporate organization. Introductory Business courses may also expose students to the varied opportunities in secretarial, accounting, management, and related fields.

Career Exploration:

Courses help students identify and evaluate personal goals, priorities, aptitudes, and interests with the goal of helping them make informed decisions about their careers. These courses expose students to various sources of information on career and training options and may also assist them in developing job search and employability skills.

YEARBOOK

To treat the creation and publication of the yearbook as a serious journalistic effort. The course would present the opportunity for students to acquire knowledge that they will use in many areas of their lives. Along with skills involved in writing, design, photography, computer use and business, students will learn about setting and meeting goals, organizing time and tasks to be completed, communicating with peers and adults and working with others in stressful times.

DRIVER EDUCATION/HEALTH

DRIVER EDUCATION

Driver Education is divided into two phases: 1) the classroom, in which rules of the road and various aspects of driver safety are discussed and studied; 2) behind-the-wheel training, in which each student is given lessons in driving an automobile.

HEALTH EDUCATION

This one-semester course will deal with the following subjects: making healthy choices, mental health, nutrition, physical fitness, human development, substance abuse, modern health problems, and first aid including cardiopulmonary resuscitation, organ donation, reproduction education.

ENGLISH

ENGLISH 1

Content: English/Language Arts I (9th grade) courses build upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and usually include the four aspects of language use: reading, writing, speaking, and listening. Typically, these courses introduce and define various genres of literature, with writing exercises often linked to reading selections.

ENGLISH 2

English/Language Arts II (10th grade) courses usually offer a balanced focus on composition and literature. Typically, students learn about the alternate aims and audiences of written compositions by writing persuasive, critical, and creative multi-paragraph essays and compositions. Through the study of various genres of literature, students can improve their reading rate and comprehension and develop the skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message.

ENGLISH 3

English/Language Arts III (11th grade) courses continue to develop students' writing skills, emphasizing clear, logical writing patterns, word choice, and usage, as students write essays and begin to learn the techniques of writing research papers. Students continue to read works of literature, which often form the backbone of the writing assignments. Literary conventions and stylistic devices may receive greater emphasis than in previous courses.

ENGLISH 4

English/Language Arts IV (12th grade) courses blend composition and literature into a cohesive whole as students write critical and comparative analyses of selected literature, continuing to develop their language arts skills. Typically, students primarily write multi-paragraph essays, but they may also write one or more major research papers.

COMPOSITION I & II

Composition courses focus on students' writing skills and develop their ability to compose different types of papers for a range of purposes and audiences. These courses enable students to explore and practice descriptive, narrative, persuasive, or expository styles as they write paragraphs, essays, letters, applications, formal documented papers, or technical reports. Although composition courses may present some opportunities for creative writing, their focus usually remains on nonfiction, scholarly, or formal writing.

INTRO TO SPEECH

This first-semester, elective course will focus on verbal and non-verbal speaking skills. Students will learn how their communication skills directly affect their interpersonal communication. The class will be dominated by speeches, activities, and performances by the students that will demonstrate their knowledge of and ability to communicate.

FAMILY AND CONSUMER SCIENCES

ADULT LIVING

This course is about single, married, and family life and making decisions related to life situations. It includes the development of independent living skills, the study of human sexuality, interpersonal relationships, marriage and family life.

CHILD DEVELOPMENT

This course includes the study of the physical, emotional, social, and intellectual development of children with an emphasis placed on the increased understanding of children and the development of basic skills relating to them.

PARENTING

This course deals with the responsibilities, satisfactions, and challenges of parenthood. It includes a study of family planning, prenatal development, the importance of prenatal care, childbirth, many types of parenting situations, effective parenting, and agencies that help parents deal with various types of parenting crises. Special attention is given to the needs of teenage parents and to the importance of readiness for parenthood.

LIVING ENVIRONMENTS

This course involves decision-making in relation to renting, buying a home, home construction, designing interior environments, and the development of skills needed to maintain and manage a home.

CONSUMER EDUCATION

This course meets the requirements for consumer education instruction required by the School Code of Illinois. It includes a study of the consumer's role in the marketplace, consumer decision-making, consumer rights and responsibilities, the U. S. economic system, taxes, budgeting, banking services, saving and investing, the use of credit, and resource management in relation to housing, transportation, and foods and nutrition.

FOODS AND NUTRITION

This course includes the study of nutrition and its relationship to good health; food selection and storage; and the basic principles of food preparation with emphasis on kitchen safety and sanitation.

FOREIGN LANGUAGE

SPANISH 1

Students are introduced to basic language communication skills--listening, speaking, reading, and writing. The method of presentation emphasizes realistic, active involvement with the language on a daily basis. Students are expected to work with groups often in order to maintain continuous speaking ability. There are occasional lab sessions in which listening skills are improved.

SPANISH 2

Level two is a continuation of basic communication skills with more advanced grammar being introduced. Most exercises will continue to involve active usage of the language in class, but an increased emphasis will be upon individual reading and writing. Cultural aspects of the language will be blended in at all levels of communication.

SPANISH 3

Level 3 introduces students to a Spanish classroom where Spanish is spoken the majority of the class time by the instructor and students. Advanced Spanish grammar will be taught and used in writing and literature assignments, as well as conversations and presentations in class.

SPANISH 4

Level 4 will concentrate not only on the classic works of authors from Spain, Mexico, Central and South America but it will expose the students to authentic realia in the target language. Students will read a variety of types of articles as well as different authors. Along with the literature, students will continue with their grammatical study of the Spanish language. Further, students will be required to complete a variety of projects that concentrate on using their acquired writing and conversation skills in their own writing and speaking.

MATHEMATICS

FOUNDATION MATH

Content: Foundation Math is designed to aid students in the transition from elementary mathematics to higher-level mathematics. This course will build on basic skills that have already been mastered, while introducing new concepts needed for success in algebra and geometry. Course topics include patterning, formulas, percents, measurement and estimation ratios, proportions, equations, inequalities, and graphing.

Math I part I: This course generally covers the same topics as the first semester of Math I, including the study of properties of rational numbers (i.e., number theory), ratio, proportion, and estimation, exponents and radicals, the rectangular coordinate system, sets and logic, formulas, and solving first degree equations and inequalities.

Math I part II: The second part in a multi-part sequence of Math I. This course generally covers the same topics as the second semester of Algebra I, including the study of properties of the real number system and operations, evaluating rational algebraic expressions, solving and graphing first degree equations and inequalities, translating word problems into equations, operations with and factoring of polynomials, and solving simple quadratics.

MATH 1

Content: Math 1 involves the study of linear and exponential functions (with domains in the integers), including application and interpretation of statistics and real-world situations. Students reason about functions and the number and nature of solutions to equations, systems of equations, inequalities and systems of inequalities. Students define congruence using transformational geometry. Students apply transformations to linear, exponential, piece-wise, absolute value, square root and cube root functions. They explore these function types represented algebraically, graphically, numerically in tables, and by verbal descriptions.

AP CALCULUS

Content: Following the College Board's suggested curriculum designed to parallel college-level calculus courses, AP Calculus AB provides students with an intuitive understanding of the concepts of calculus and experience with its methods and applications. These courses introduce calculus and include the following topics: elementary functions; properties of functions and their graphs; limits and continuity; differential calculus (including definition of the derivative, derivative formulas, theorems about derivatives, geometric applications, optimization problems, and rate-of-change problems); and integral calculus (including antiderivatives and the definite integral).

MATH 2

Math 2 involves the study of quadratic and exponential functions represented algebraically, graphically, numerically in 21 tables and by verbal descriptions. Students write equivalent radical, rational and quadratic expressions to reveal information using properties of exponents, completing the square, and/or factoring. Students define similarity using transformational geometry and use this definition to prove geometric theorems. Students learn and apply trigonometric ratios, the Pythagorean Theorem and the relationship between sine and cosine to solve problems. Students recognize, calculate and use conditional probability and independence.

MATH 3

Math 3 involves the study of polynomial, rational, logarithmic and trigonometric functions represented algebraically, graphically, numerically in tables and by verbal descriptions. Students write equivalent polynomial, rational, trigonometric and logarithmic expressions to reveal information and key features. Students make geometric constructions and apply geometric concepts and trigonometric ratios to describe, model and solve problems. Students distinguish among sample surveys, experiments and observational studies to determine and interpret data.

PRE-CALCULUS

Pre-Calculus is a year-long course intended for the college-bound student who will enter a course of study requiring a substantial math background. The course is intended to prepare the student for the study of calculus in their post-high school studies. The course would also be suited for students who have an interest in using and studying ideas common to pre-calculus mathematics.

AP STATISTICS

The AP Statistics course is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.

TRANSITIONAL MATH

Math course framework designed to prepare and transition students directly into college and career pathways requiring general education college level math competencies in quantitative literacy and statistics. The competencies within each domain should include, but are not limited to: numeracy (operation sense, estimation, measurement, quantitative reasoning, basic statistics, and mathematical summaries), application based algebraic topics, and functions and modeling. Upon completion students should be able to: demonstrate proficiency and understanding in basic numeracy competencies in whole numbers, integers, fractions, and decimals, use estimation and explain/justify estimates, apply quantitative reasoning to solve problems involving quantities or rates, use mathematical summaries of data such as mean, median, and mode, use and apply algebraic reasoning as one of multiple problem solving tools, and use functions and modeling processes. Course to be delivered through authentic application, problem based instruction designed to build mathematical conceptual understanding and critical thinking skills.

MUSIC

BAND:

General Band courses develop students' technique for playing brass, woodwind, and percussion instruments and cover a variety of non-specified band literature styles (concert, marching, orchestral, and modern styles).

CHOIR

Chorus courses provide the opportunity to sing a variety of choral literature styles for men's and/or women's voices and are designed to develop vocal techniques and the ability to sing parts.

Theater:

Theater courses provide an overview of the art, conventions, and history of the theater. Although the courses sometimes include experiential exercises, they emphasize learning about the theater rather than performance. Students learn about one or more of the following topics: basic techniques in acting, major developments in dramatic literature, major playwrights, the formation of theater as a cultural tradition, and critical appreciation of the art.

Film Appreciation:

Course helps students understand the critical historical and stylistic elements of cinema. These courses help students form an aesthetic framework to examine social, political, and historical events in the world and to understand how moving images express the ideas of individuals and society. Course content may include analysis, discussion, and evaluation of multiple film styles including, but not limited to, documentary, short film, drama, horror, and comedy.

PHYSICAL EDUCATION

ATHLETIC CONDITIONING

This course is designed for the student who has a serious interest in physical conditioning. It consists of a rigorous daily schedule of conditioning elements including flexibility training, weight training, agility drill work, speed improvement work and cardio-vascular training. All students are pre-tested, and progress is checked and charted at regular intervals throughout the course. Student evaluation is on the objective basis of improvement shown through the testing program as well as the subjective analysis of the student's work habits by the instructor.

PHYSICAL EDUCATION

This course will consist of a wide variety of activities in the areas of individual and team sports and rhythms. The main objectives of the course are: 1) to cultivate recreational interests in physical activities, especially lifetime sports; 2) to develop an awareness and appreciation of movement and physical activities in self and other; 3) to realize the importance of activity to one's own well-being; and 4) to develop a working knowledge and understanding of a broad scope of physical activities both as a spectator and as a participant.

SCIENCE

FORENSIC SCIENCE

This course is an introduction to forensic science, covering topics from trace evidence, firearms, crime scene reconstruction, tool mark impressions, DNA analysis, forensic psychology, serology and sex crimes, and computerforensics. We will discuss the techniques used in a forensic laboratory to examine evidence and obtain the type of results that can be used in the courtroom. In addition, case studies illustrating topics of lectures will accompany the course content. The laboratory portion of the course will include experiments that demonstrate the topics discussed in lectures.

HUMAN ANATOMY/PHYSIOLOGY

In this one semester course, in-depth study of the principles of human anatomy and physiology of animals will be provided. Students work with models and dissections where the structure of these is related to human structure and function. Ideal for students pursuing a health-related career.

CHEMISTRY 1

This course will provide a basic understanding of the interaction of matter and energy. Problem solving, concepts of matter, and laboratory techniques will be developed. Chemistry will provide a very necessary background to any student planning some later work in science and to those students who need a fuller understanding of the natural world.

CHEMISTRY II

Usually taken after a comprehensive initial study of chemistry, Chemistry-Advanced Studies courses cover chemical properties and interactions in more detail. Advanced chemistry topics include organic chemistry, thermodynamics, electrochemistry, macromolecules, kinetic theory, and nuclear chemistry.

AP CHEMISTRY

The AP Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium.

BIOLOGY

Biology is a course designed to provide sufficient challenge to those students interested in the living World. The course is designed to cover a series of major themes: science as investigation and inquiry; complementary structure and function; unity within diversity, change of organisms through time; adaptations, population dynamics and ecology, and a general survey of living organisms and

classification. Students will also investigate cellular activities and gain a basic understanding of genetics. A multitude of labs and activities will supplement textbook and lecture material.

Medical Biology:

Pathology 1st semester: This course deals with the investigation of those pathological mechanisms common to all tissue-cell pathology. Attention is paid to the processes of cellular adaptation, inflammation, repair, immunology, cellular accumulation, and neoplasia. Microbiology 2nd semester: course provides students with a general understanding of microbes, prokaryotic and eukaryotic cells, and the three domain systems. Additional topics covered may include bacterial control, cell structure, fungi, protozoa, viruses and immunity, microbial genetics, and metabolism.

AP BIOLOGY

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes — energy and communication, genetics, information transfer, ecology, and interactions.

Earth Science:

Courses offer insight into the environment on earth and the earth's environment in space. While presenting the concepts and principles essential to students' understanding of the dynamics and history of the earth, these courses usually explore oceanography, geology, astronomy, meteorology, and geography.

PHYSICAL SCIENCE

Physical Science is a basic introduction to Chemistry and Physics with Earth Science topics included. The investigative approach to problem solving is emphasized with the student performing a large variety of experiments during the year.

PHYSICS

Using a combination of qualitative description, mathematics, and historical development, the course will deal primarily with a study of the areas of physics referred to as mechanics (forces, linear and circular motion, energy, work and power) along with waves, light and heat. Laboratory work making use of the discovery approach on the part of the student will be employed as frequently as possible.

SOCIAL SCIENCE

CURRENT EVENTS

Current Events is a class designed to bring the students up-to-date on the world. The student has the option of taking only the first semester, the second semester, or both. Students will be expected to watch

nightly news programs and participate in class discussions. Each student will receive his or her own copy of a news magazine each week (for example, Newsweek), and will be required to read assigned articles and answer questions about them. Tests and daily quizzes will consist mostly of questions pertaining to assigned articles and class lectures and discussions.

MODERN AMERICAN STUDIES

Modern American Studies is a continuation of the U.S. History class. This course focuses on events from the 20th century. Some of the major units of study include the Spanish-American War, the Progressive Era, World War I, the "Roaring Twenties", the Great Depression, the rise of the dictators, the background and causes of World War II and the post World War II years--the beginning of the Cold War, the Red Scare, and Korean Conflict, etc. The 1960's are covered extensively with units on the JFK presidency, LBJ, and the Vietnam Conflict. The 1970's include chapters on the Nixon, Ford and Carter presidencies and the 1980's focus on the Reagan and Bush presidencies. The goal is to cover material right up to the moment.

Geography:

Courses provide students with an overview of world geography, but may vary widely in the topics they cover. Topics typically include the physical environment; the political landscape; the relationship between people and the land; economic production and development; and the movement of people, goods, and ideas.

PSYCHOLOGY

Psychology is the scientific study of behavior. This course concentrates on the social and personal aspects of an individual's behavior. Topics include learning theories (Pavlov, Watson, Skinner), language development, memory and forgetting, intelligence and creativity, emotions, social and psychological motivations, sleeping and dreaming and other altered states of consciousness, personality development theories (Freud, Jung, Adler, Maslow, Rogers), abnormal behavior, (neuroses and psychoses, personality disorders), defense mechanisms, life cycles and stages, and achieving mental wellness. The basic principles and theories are discussed, and the language of psychology is used with the practical application of these principles in one's everyday life. Emphasis is placed on learning about one's self and one's actions as well as understanding the behavior of others.

SOCIOLOGY

Sociology is a course which involves the study of human relationships, social institutions, and social problems. The course covers several topics including units on American Culture - cultural variations, cultural adaptations, cultural conformity; Socialization - personality development, adolescence, adulthood, social groups; Social Institutions - marriage, the family, education, religion, the economy and government; and Contemporary Issues - population and economic development, crime and punishment, modernization and social change, stress, etc. Much of the class is centered around discussion with the student encouraged and expected to participate. There are several major writing assignments during the course. Worksheets, class notes, library materials, speakers and audio visuals will all be used.

U.S. HISTORY

This class covers the early years of the country with chapters on early exploration and the eventual arrival of European colonists. Colonial life, conflict with Native Americans and the War for Independence are covered during the first weeks. Establishing our system of government and building our nation follow. Expansion and the conflicts that resulted are then discussed. The Civil War—its causes and consequences—is a major unit of study. Settlement of the West, the industrial age, and events of the 20th century follows.

AP U.S. HISTORY

The AP U.S. History course focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and the development of students' abilities to think conceptually about U.S. history from approximately 1491 to the present. Seven themes of equal importance – American and National Identity; Migration and Settlement; Politics and Power; Work, Exchange, and Technology; America in the World; Geography and the Environment; and Culture and Society – provide areas of historical inquiry for investigation throughout the course. These require students to reason historically about continuity and change over time and make comparisons among various historical developments in different times and places. The course also allows teachers flexibility across nine different periods of U.S. history to teach topics of their choice in depth.

CIVICS

Civics courses examine the general structure and functions of American systems of government, the roles and responsibilities of citizens to participate in the political process, and the relationship of the individual to the law and legal system. These courses do not typically delve into the same degree of detail on constitutional principles or the role of political parties and interest groups as do comprehensive courses in the U.S. Government.

WORLD HISTORY

This course surveys major events of human development beginning with prehistory and culminating in the development of Western civilizations. Students will trace the development of social order during prehistory and the period of classical civilizations (Greece and Rome). Also, students will study medieval times, the Renaissance, and the emergence of modern Europe.

Early College and Career Academy

The Early College and Career Academy is a program for high school juniors and seniors to earn dual credit

(college and high school), while gaining skills in different Parkland College programs: Automotive Technology, Computer Networking, Computer Programming, Construction Trades, Criminal Justice, Certified Nursing Assistant, Education Pathway, Emergency Medical Services (Health Professions or Fire Service Focus), and Industrial Technology. ECCA courses are taken at Parkland College. Each program allows students to earn between 10 – 14 college credits per school year.

AUTOMOTIVE TECHNOLOGY

Students gain the skills needed to inspect, maintain, and repair automobiles and light trucks with internal combustion engines. Successfully completing five Academy classes over two years earns the Parkland College Maintenance and Light Repair Certificate. Automotive students will have the opportunity to participate in the Hot Rodders of Tomorrow engine challenge.

COMPUTER NETWORKING

Students in this program will learn personal computer maintenance and basic skills with operating systems, software, networking, programming, and logic. It will also provide comprehensive study of Linux user commands, local area networks, wide area networks, and the internet. Students who successfully complete Computer Networking as a junior will secure a guaranteed spot in Computer Programming as a senior.

COMPUTER PROGRAMMING

This program will introduce logic and fundamental programming concepts using a common computer language with emphasis on syntax and structure. Topics include programming skills for creating websites, covering a range of topics from HTML and CSS to basic usage of common design patterns and web frameworks. Students who successfully complete Computer Networking and the Computer Programming sequence will earn the Parkland College Computer Foundations Certificate.

CONSTRUCTION TRADES

This program is for students interested in careers related to the building and construction trades and is a partnership with the East Central Illinois Building and Construction Trades Council. ECCA Construction Trades will include a combination of on campus instruction through coursework and off-campus hands-on instruction at local building trades facilities. Students will learn from professionals in areas such as plumbing, electrical, carpentry, painting, roofing, ironworking, bricklaying, and more.

CRIMINAL JUSTICE

Students learn how criminal justice procedures and agencies have developed over time, along with their philosophy and constitutional aspects. Students survey the juvenile delinquency and U.S. correctional systems to discover other important aspects of criminal law. Hands-on instruction will include techniques to process crime scenes and analyze physical evidence.

EDUCATION PATHWAY

This program is for future teachers and will focus on the philosophy and history of American public education and the role of the teacher, including discussion on current issues in education. The Education program includes a practical experience, which will take place throughout the school year. The practical experience will be jointly developed by ECCA and the student's home high school and will include observation hours and classroom assisting at local school districts.

EMERGENCY MEDICAL SERVICES (EMS) – Health Professions Focus

Through Emergency Medical Technician training, students are prepared to provide pre-hospital assessment and care for those with medical conditions and traumatic injuries. Successfully completing the four Academy courses prepares students for the Illinois EMT-Basic license exam.

EMERGENCY MEDICAL SERVICES (EMS) – Fire Service Focus

Students who elect this option will participate in an Introduction to Fire Service course during the fall semester, which will include interactive activities and hands-on demonstrations related to careers in the Fire Service profession. Through Emergency Medical Technician training, students are prepared to provide pre-hospital assessment and care for those with medical conditions and traumatic injuries. Successfully completing the four Academy courses prepares students for the Illinois EMT-Basic license exam.

HEALTH PROFESSIONS - CERTIFIED NURSE ASSISTANT (CNA)

Under the direct supervision of a licensed nurse, students learn how to care for patients in a long-term care facility, hospital, or assisted living facility, or in the home. Successfully completing the four Academy courses prepares students for the Illinois Nurse Assistants Certification exam.

INDUSTRIAL TECHNOLOGY: MACHINING, WELDING, AND DESIGN

In Parkland's state-of-the-art Parkhill Applied Technology Center, students learn AutoCAD software, basic machining processes and machine tool equipment, and computer numeric control (CNC) and CNC programming. Other courses will include instruction in welding, hydraulics/pneumatics, mechanical assembly, and computer-aided machine design.