

# COURSE OFFERINGS

\*indicates an elective that is offered every other year

## AGRICULTURE

### **AGRICULTURE MECHANIZATION & TECHNOLOGY (AG. OPERATIONS)** (Two Semesters--grades 11-12)1 credit

This course will concentrate on expanding a student's knowledge and experiences with agricultural mechanization technologies utilized in the agricultural industry. Areas of instruction should provide applications in units that may include Design, Construction, Fabrication, Maintenance, Welding, Electricity/Electronics, Internal Combustion Engines, Hydraulics, Environmental/Natural Resources Management, and Employability Skills. Microcomputer applications are utilized as they relate to each instructional unit. Because FFA and SAE are integral components of this course, students are encouraged to maintain an SAEP and to participate in activities of the FFA organization. Prerequisite: 2 Ag. Classes

### **AGRICULTURE SCIENCE I** (One Semester--grades 10-12) 1/2 credit

This Course builds on the basic skills and knowledge gained from introduction to Agriculture Industry I. Major units of instruction include advanced plant and soil science, which includes fertilizer programs, chemical use, plant disease and insect problems, and other plant management techniques. The course will also stress math and science skills in maintaining and repairing equipment for these areas. Microcomputer applications are used to relate new management tools that are available. Prerequisite: Introduction to Agriculture.

### **AGRICULTURE SCIENCE II** (One Semester--grades 10-12) 1/2 credit

This course is a continuation of Agriculture Science I. This course will move from the plant aspects to the animal care which includes nutritional needs, health needs, environmental and transportation needs of large and small animals. Also addressed in the class will be equipment and facilities needed and how to repair and replace this equipment. Math and Science skills are stressed in these classes with microcomputer applications used to relate ideas. The first semester of Agriculture Science is recommended before entering this course unless an agreement is made by the Agriculture Department. Prerequisite: Introduction to Agriculture.

### **BIOLOGICAL SCIENCE APPLICATIONS IN AGRICULTURE – BSAA I “Animals”** (Two Semester – grades 10-12) 1 credit

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 – embryology, ethology, nutrition, 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. Participation in FFA student organization activities and Supervised Agricultural Experiences (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. Prerequisite: Biology or Physical Science.

### **BIOLOGICAL SCIENCE APPLICATIONS IN AGRICULTURE – BSAA II “Plants”** (Two Semesters--grades 10-12) 1 credit

This full year course is designed for students to broaden their knowledge of scientific principles and concepts in the plant and animal fields. Major units of instruction will include animal and plant reproduction, physiology, environmental relationships, nutrient requirements, growth patterns, disease systems, animal selection and care, and genetics. Many relevant experimental applications in agriculture will be used to demonstrate these scientific principles. Prerequisite: (General or Physical Science or Biology)

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### **HORTICULTURE** (Two semesters--grades 10-12) 1 credit

This course is designed to develop knowledge and skills in the following areas: using soil and other plant-growing media; identifying horticultural plants; propagating horticultural plants; basics of growing horticultural plants in greenhouse and nursery settings; constructing, maintaining, and using plant-growing structures; operating, repairing and maintaining equipment used in the horticulture field. Prerequisite: (General or Physical Science or Biology)

### **INTRODUCTION TO THE AGRICULTURAL INDUSTRY** (Two Semesters--grades 9-12) 1 credit

This orientation 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. Prerequisite N/A

### **SUPERVISED AGRICULTURAL EXPERIENCE** (Two Semesters-- grades 9-12) 1/2 credit

This experience program is for students who are in an agriculture class or who are unable to schedule one due to time conflicts. This class allows students to be an FFA member and participate in the official FFA activities. The student must keep up an SAE on an approved project and turn it in at certain intervals during the year. Their grade is based upon their records. (Supervised study, project record book, training plans and report writing) Prerequisite N/A

## **ART**

### **ART HISTORY** (One Semester--grades 9-12) 1/2 credit

With world history as a backdrop, this class will explore four periods in western art: Prehistoric, Ancient, Medieval, and Renaissance. Students will engage in traditional instruction, classroom activities, and hands-on projects that will foster an appreciation for the unique characteristics of each period and an understanding of how the culture, available materials, tools, & techniques of the period influenced art production. Students will recognize famous art, artists, and architecture that have shaped western culture; and understand their historical significance.

### **BASIC ART I** (One Semester--grades 9-12) 1/2 credit

Students are introduced to Art vocabulary, Art criticism, and Art history. They will gain understanding of the elements of Art by incorporating them into their artwork using a variety of mediums. Basic Art I and Basic Art II are prerequisites for all other Art classes such as Drawing, Painting, and Sculpture & Printmaking. Pre: N/A

### **BASIC ART II** (One Semester--grades 9-12) 1/2 credit

Students will build on the knowledge and skills gained in Basic Art I. In addition, students will gain understanding of the principles of Art by incorporating them into their artwork using a variety of mediums. Basic Art I and Basic Art II are prerequisites for all other Art classes such as Drawing, Painting, and Sculpture & Printmaking.

### **DRAWING I** (One Semester--grades 9-12) 1/2 credit

This course is designed to be a class that will provide students with a wide variety of two-dimensional visual art experiences in drawing, as well as introduce them to the vocabulary of art and art history. Pre: Basic Art

### **PAINTING I** (One Semester--grades 9-12) 1/2 credit

The focus of this course is to develop skill with watercolor and acrylic painting. Students will practice techniques unique to each paint and apply their skills to subject matter including still life, landscape, non-objective, and abstract. Art History will be taught through the study of selected painters and their work. Pre: Basic Art

### **SCULPTURE AND PRINTMAKING** (One Semester--grades 9-12) 1/2 credit

There are a wide variety of sculptural materials available to artist other than ceramic clay. Although pottery is one of the most recognizable forms of sculpture, students need to be aware of the other media available to them such as stone, wood, metal and wire. Within this class students will be experiencing a wide variety of tools and techniques, and history all associated with sculpture other than ceramics. Along with basic techniques students will be involved in discovering cultural and historical applications of sculpture and the element of form. Within this class students will also explore the more complex printmaking processes. Pre: N/A

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## BUSINESS/TECHNOLOGY

### **CODING AND PROGRAMMING** (One semester--grades 9-12) 1/2 credit

Students learn the following: problem-solving process, input-output-store-process model of a computer, HTML, CSS, and fundamental programming with JavaScript while developing games and animation. Prerequisite: N/A

### **\*COMPUTER APPLICATIONS** (One semester--grades 9-12) 1/2 credit

Students will use office application software to produce business documents, including Word, Excel, and PowerPoint. Students will apply problem-solving skills to hands-on situations using the Microsoft Office applications exploring topics relating to computer concepts, operating systems, and emerging technologies. In addition, students will become familiar with digital media and digital publishing as well as software to create multimedia projects. The class will operate paperless through the use of Google Classroom, using a Google account for productivity using Google Apps.

Prerequisite: N/A

### **\*DESKTOP PUBLISHING** (Once Semester – grades 9-12) ½ credit

Students will be introduced to Adobe CS3 software (Photoshop and Illustrator). Throughout the course, students will learn how to work with text, color, styles, graphics, and more. This course will enable students to create a document (brochure, book, flyer, etc.) ready for professional printing and publication. Prereq: N/A

### **FRESHMAN SEMINAR** (One semester “Fall only”—grade 9) 1/2 credit

Freshman Seminar class combines keyboarding, technology & study skills to provide freshmen with the tools to be successful during their years in high school. In addition, an introduction to Word, Excel, and PowerPoint will be taught. Pre: N/A

### **\*MULTIMEDIA APPLICATIONS** (One Semester Course – Grades 9-12) ½ Credit

Students will use a variety of software and online applications to create multimedia projects. Course content will include image editing, sound editing, coding, and video production while students explore different ways of creatively expressing themselves in a digital world. Current technology trends and project-based learning will be an integral part of the class. Students will work on creative projects to prepare them for a world that craves digital media in all career pathways. The class will operate paperless through the use of Google Classroom.

Prerequisite: N/A

### **OFFICE ACCOUNTING I** (Two Semesters--grades 11-12) 1 credit WEIGHTED and **DUAL CREDIT** (OFTC 1233)

Accounting I is offered to students who have a variety of career objectives: (1) beginning vocational preparation for careers in accounting; (2) accounting knowledge and skill needed for careers in related business fields; (3) a foundation on which to continue studying business accounting at the collegiate level; and/or (4) an understanding of financial aspects that affects one's everyday life. The first semester the students will learn the basic accounting theories--journals, ledgers and various financial statements. During the second semester the students will learn the use of a computerized accounting program and spreadsheets. Prerequisite: N/A

### **\*WEB DESIGN** (One semester –Grades 9-12) ½ credit

An introductory course designed to teach students basic HTML and file management skills topical to telecommunications. The course introduces students to HTML coding, Text only and GUI HTML editors. Students will learn the basics of web page construction, with an emphasis on the graphic design of the pages, and will practice their skills on projects. The students will learn the fundamentals of Photoshop and Fireworks to produce web graphics. They will gain experience in using design layouts, styles and terminology to produce simple web sites. Prerequisite: N/A

## FAMILY AND CONSUMER SCIENCES

### **\*BAKING** (One Semester—grades 9-12) ½ credit

This class focuses on the fundamental baking skills necessary to produce a variety of baked goods such as bars, simple breads, cookies, cakes, and muffins; and includes topics such as food sanitation and kitchen safety; how to read, follow, and scale recipes; and how to work cooperatively with others. Students will apply math skills to measure



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ingredients, scale recipes, and calculate nutrition facts and product costs. Additionally, students will evaluate their own work, and the work of their peers; learning from mistakes as well as successes. Prerequisite: N/A

### **COOKING METHODS** (One Semester—grades 9-12) 1/2 credit

Students will gain experience preparing a variety of foods while practicing food sanitation and kitchen safety. In addition to traditional instruction, and classroom activities, students will gain practical cooking experiences in labs. Labs will consist of dry and moist heat cooking methods including baking, broiling, frying, grilling, microwaving, roasting, and steaming a variety of foods while discovering the science of each cooking method. Prerequisite: N/A

### **FOOD AND NUTRITION** (One Semester--grades 9-12) 1/2 credit

This course includes basic classroom and laboratory experiences needed to develop knowledge and understanding of basic food principles and applied nutrition for people of all ages. The course content centers around the following duty areas: promoting food service and preparation management using the decision-making process; meeting basic need by applying nutrition concepts; meeting health and safety needs in planning, preparing, and serving food; maximizing resources when planning/preparing/serving food; promoting hospitality in food practices; and analyzing individual and family nutritional needs in relation to change. Information related to career in food and nutrition is incorporated throughout the course. Prerequisite: N/A

### **FOOD SERVICES** (One Semester--grades 9-12) 1/2 credit

This course is designed to provide students interested in a career in food service with the information and practical experiences needed for the development of food serving job related competencies. The student receives laboratory experiences preparing and serving food. Safety and sanitation are emphasized. The course provides students with information and experiences to prepare them for the Department of Public health sanitation examination. Training experiences involve the equipment and facilities which simulate those found in business industry. Prerequisite: NA

### **HOUSING** (One Semester--grades 9-12) 1/2 credit

Students will explore the practical aspects of housing by examining and evaluating the benefits and disadvantages of housing options, exploring property maintenance, and housing expenses. Students will explore careers related to housing, and interior design, with hands-on projects. Prerequisite: NA

### **LIFE SKILLS** (One Semester--grades 11-12) 1/2 credit

This course is designed to increase the knowledge and skills that are needed for the transition from high school to adult life. Students will work on identifying their educational and/or career goals. They will become aware of their strengths and weaknesses, personal interests, and areas of development. Topics covered will include goal-setting, communication, budgeting, nutrition and cooking, household management, and career development. Prerequisite: NA

### **PARENTING** (One Semester--grades 9-12) 1/2 credit

Students will review aspects of conception, birth control, childbirth, and adoption. They will explore, and evaluate, theories of child development, safety concerns pertaining to infants, and young children; the nutritional needs of infants, toddlers, and school-age children; and the financial responsibilities associated with child-rearing. Students will be given a doll for a weekend-long infant/ parenting simulation. Prerequisite: NA

### **RESOURCE MANAGEMENT** (One Semester--grades 11-12) 1/2 credit

Learning experiences focus on the understanding and skills needed to make decisions about the use of resource and prevention strategies which contribute to an improved quality of life. The course content includes the following duty areas: utilizing resources and consumer information by applying goal-setting and decision-making skills; evaluating use of resources to meet social, physical, and psychological needs; maintaining health standard by applying safety information; applying consumer rights and responsibilities in the marketplace; accomplishing mutual goals by utilizing human resources; and analyzing marketplace; and analyzing resource/consumer management skills necessary for present and future decisions. This course meets the requirement for consumer education instruction as required by the School Code of Illinois (Section 27-12. 1) Prerequisite: N/A

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## FOREIGN LANGUAGE

### **SPANISH I** (Two Semesters--grades 9-12) 1 credit WEIGHTED

This course takes a communicative approach to language learning. It develops students' speaking, listening, reading, and writing skills so that they will be able to express their own ideas and interact with others in meaningful, real-life contexts. It emphasizes frequently used vocabulary and presents grammar as a tool for effective communication. Finally, because cultural knowledge is an integral part of both language learning and successful communication, this course introduces to students to the everyday lives of Spanish speakers, as well as the countries of the Spanish-speaking world. Testing will involve grammar, vocabulary, culture, listening, communication skills between student and teacher, communication skills within a group, geography, and translation. Prerequisite: N/A

### **SPANISH II** (Two Semesters--grades 10-12) 1 credit WEIGHTED

This course takes a communicative approach to language learning. It develops students' speaking, listening, reading, and writing skills so that they will be able to express their own ideas and interact with others in meaningful, real-life contexts. It emphasizes frequently used vocabulary and presents grammar as a tool for effective communication. Finally, because cultural knowledge is an integral part of both language learning and successful communication, this course introduces to students to the everyday lives of Spanish speakers, as well as the countries of the Spanish-speaking world. Testing will involve grammar, vocabulary, culture, listening, communication skills between student and teacher, communication skills within a group, geography, and translation. Prerequisite: Spanish I

### **SPANISH III** (Two Semesters--grades 11-12) 1 credit

This course takes a communicative approach to language learning. It develops students' speaking, listening, reading, and writing skills so that they will be able to express their own ideas and interact with others in meaningful, real-life contexts. It emphasizes frequently used vocabulary and presents grammar as a tool for effective communication. Finally, because cultural knowledge is an integral part of both language learning and successful communication, this course introduces to students to the everyday lives of Spanish speakers, as well as the countries of the Spanish-speaking world. Testing will involve grammar, vocabulary, culture, listening, communication skills between student and teacher, communication skills within a group, geography, and translation. Prerequisite: Spanish II

### **SPANISH IV** (Two Semesters--grades 12) 1 credit

This course is a comprehensive view of the Spanish language. The students use Spanish to communicate within and beyond the classroom setting. The students develop an understanding of the customs, arts, literature, history, and geography associated with Spanish. The students use Spanish to make connections and reinforce knowledge and skills across academic, vocational and technical disciplines. Prerequisite: Spanish III

## HEALTH & DRIVER'S EDUCATION

### **HEALTH** (One Semester--grade 9-12) 1/2 credit

One semester course with emphasis on self-responsibility in the wellness approach to health including life-style, decision-making skills, nutrition, exercise and fitness, mental health and mental illness, substance use and abuse and AIDS education. Prerequisite: N/A

### **DRIVER'S EDUCATION** (One Semester--grade 9-12) 1/2 credit

Driver's Education is divided into two sections. The first section is the classroom, which consists of covering two types of textbooks and guest speakers. One, "Rules of the Road," explains signs and traffic laws. The second text, "Responsible Driving," covers more details of Driver's Education. The second section is the actual driving. Here the students drive under supervision, in town, and on the highway. They get to put what they have learned in the classroom to practice on the road. They must drive at least 6 hours to complete the course. After they have completed the course, they may apply for their driver's license. Prerequisite: Passing eight (8) classes in the previous two semesters and must be at least 15 years old the first day of class.

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## LANGUAGE ARTS (COMMUNICATIONS)

### **ENGLISH I** (Two Semesters--grade 9) 1 credit

This beginning course of study in English places major emphasis on understanding the basic skills of grammar through a practical application of them. A grammar book is used providing exercises in developing the use of the following items: The parts of speech, basic sentence structure, phrases, clauses, correct use of verbs and pronouns and subject-verb agreement. Short story, drama, poetry, and novel units are studied with stress placed upon understanding the components of these. Expository and creative writing exercises are assigned in conjunction with these units. Along with note-taking and discussion skills, learning to use reference materials is required. Prerequisite: N/A.

### **ENGLISH II** (Two Semesters--grade 10,11) 1 credit

The second step in English contains a basic review of grammar principles and an extensive study of sentence structure and paragraph development. Many written compositions are required. Units taught in literature are: Short Story, Dramatic Play, Poetry, and Novel. Reading comprehension and composition skills are emphasized to develop an understanding of the components of classical and contemporary literature. Prerequisite: English I

### **ENGLISH III** (Two Semesters--grade 11,12) 1 credit

The third course of study in English stresses an interpretation and analysis of important works in American Literature and their authors. Expository and creative writing assignments are written in conjunction with the reading of plays, short stories, novels, and poetry selections from major American writers. These are designed to encourage students to utilize grammar, vocabulary and literacy appreciation skills. Skills needed to write bibliographies and research papers are also revealed. Prerequisite: English II

### **ENGLISH IV** (Two Semesters – grade 12) 1 credit

Using the English IV Textbook, the class will focus on the storytelling of *Beowulf*, *The Canterbury Tales*, the Romantic poets and novelists. The course will also study William Shakespeare's *Hamlet*, Oscar Wilde's *The Importance of Being Earnest*, George Bernard Shaw's *Pygmalion* (as well as the modern adaptation of *My Fair Lady*), and Noel Coward's *Blithe Spirit*. Prerequisite: English III

### **RHETORIC AND COMPOSITION I** (One Semester—grade 12) 1/2 credit WEIGHTED

#### **DUAL CREDIT PREREQUISITE – ACT or ASSET TEST REQUIREMENT (ENGL 1101)**

The general objectives of the first-semester composition course are to prepare the student for college work through teaching him or her to use the library, to read more effectively and to write good expository prose based on personal observation and reading. Prerequisite: English III and either a 246 on the RLC Accuplacer test or a 480 on the SAT.

### **RHETORIC AND COMPOSITION II** (One Semester—grade 12) 1/2 credit WEIGHTED

#### **DUAL CREDIT PREREQUISITE – Rhetoric and Composition I**

The general objectives of the first-semester composition course are to prepare the student for college work through teaching him or her to research the library and online resources, to read more effectively, and to write research papers based on factual information, observation, and reading. Prerequisite: Rhetoric and Composition I

### **MYTHOLOGY I AND II** (One Semester for each—grades 10-12) 1/2 credit for each semester

Mythology courses introduce students to the origins and meaning of myths, including how cultures use myths to explain natural or social phenomena. Students will explore the major themes, stories, characters, and archetypes present in the mythologies of several different cultures.

## MATHEMATICS

### **ALGEBRA Ia** (Two Semesters--grades 9-11) 1credit

This course covers the first half of what is being covered in Algebra I

Prerequisite: N/A

### **ALGEBRA Ib** (Two Semesters--grades 10-12) 1credit

This course covers the second half of what is being covered in Algebra I

Prerequisite: Algebra Ia



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### **ALGEBRA I** (Two Semesters--grades 9-12) 1 credit

This course covers both the structure of algebra and the development of computational problem-solving skills. Structure and properties of real numbers are reviewed and extended. Equations, inequalities, polynomials, and functions are thoroughly treaded. The course also includes quadratic equations and provides a simple introduction to statistics, probability, trigonometry, and factors. Prerequisite: NA.

### **ALGEBRA II** (Two Semesters--grades 10-12) 1 credit

The course stresses both the structure of algebra and the development of computational problem-solving skills. Equations, inequalities, polynomials, and functions are thoroughly treated. The course also includes an introduction to probability and matrices. Prerequisite: Algebra I, Algebra Ia & Ib or special permission.

### **BUSINESS MATH** (Two Semesters--grades 11-12) 1 credit

This course is set of modular learning materials, designed to be a junior level mathematics course for those planning to enter the work force directly after high school. But the course could also be beneficial, as an elective, for a college bound student wanting to learn job related mathematic skills. The overall course includes material that focuses on arithmetic operations, problem-solving techniques, estimation, measurement skills, geometry, data handling, simple statistics, and the use of algebraic formulas to solve problems. Prerequisite: Algebra I OR Alg Ia and Ib

### **COLLEGE ALGEBRA AND TRIGONOMETRY** (Two Semesters--grades 10-12) 1 credit **WEIGHTED DUAL CREDIT** (Math 1108 and Math 1109)

This course consists of a continuation of the concepts introduced in both Algebra I and Algebra II. Heavy emphasis is given to all phases of trigonometry to include trigonometric equations, trigonometric identities, complex numbers, and the equations and graphs of sinusoids. Logarithms and exponentials are stressed throughout the course. Also included is a detailed study of matrices, determinants, arithmetic series, geometric series, conic sections, roots of higher order polynomial equations, functions, and curve sketching. In addition, word problems, probability, and geometric concepts are emphasized. Prerequisite: Algebra II **DUAL CREDIT PREREQUISITE – SAT or ACCUPLACER TEST REQUIREMENT**

### **GEOMETRY** (Two Semesters--grades 10-12) 1 credit

Included in the course is a standard list of geometric theorems with emphasis paid to geometric proofs and constructions. Also covered is this course will be both inductive and deductive reasoning. Other topics to be covered are points, lines, planes, angles, locus, triangles, polygons, and circles. Special emphasis will be given to coordinate geometry and the calculation of areas for plane figures, volumes, and solids. Prerequisite: Algebra I

## **MUSIC**

### **CHORUS I** (One semester – grades 9-12) ½ credit

This course is designed to serve as a rehearsal session for a performing vocal ensemble. Through the rehearsal process of selected vocal music, students will develop their musical literacy, sight singing skills, and vocal technique. Skills learned during this course will be put to use during various performances throughout the semester. Prereq: N/A

### **CHORUS II** (One semester – grades 9-12) ½ credit

This course is designed to serve as a rehearsal session for a performing vocal ensemble. Through the rehearsal process of selected vocal music, students will develop their musical literacy, sight singing skills, and vocal technique. Skills learned during this course will be put to use during various performances throughout the semester. Prereq: N/A

### **INTRODUCTION TO MUSIC** (One semester – grades 9-12) ½ credit

This course is designed to serve as an introduction to a variety of basic music skills. Students will learn how to read basic music notation, develop an understanding of simple music theory, and learn musical performance skills. Pianos will be used as the primary vehicle for studying the music skills, with students learning to play simple sheet music written for piano throughout the semester. Prereq: N/A

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### **MUSIC APPRECIATION** (One semester – grades 9-12) ½ credit

This course is designed to serve as an exploration of music as it has evolved over the course of history and as it exists in various different cultures from around the world. Students will listen to and study the development of Western music throughout the millennia, the changes music has undergone in the United States of America, and the music of cultures from around the world. Prereq: N/A

### **PHYSICAL EDUCATION**

#### **PHYSICAL EDUCATION** (Two Semesters - grades 9-12) 1 credit

1. Philosophy. Throughout the history of education, it has been an accepted principle that the development of a healthy body is an integral part of the total educational program. Woodlawn High School adheres to this principle. It is the philosophy of this high school that every student will be "physically educated to the best of his/her ability".

2. Objectives. The major objective of the physical education program is the development and maintenance of:

- a. Physical fitness and motor skills - Students will be expected to develop a level of fitness and motor skill with the limits being only the individual student's ability.
- b. Social Efficiency - Simply stated, this is the ability to get along with others and exhibit desirable standards of conduct.
- c. Recreational Competency - Recreational skills should be mastered early on so that the individual can participate in and learn to enjoy the various activities well enough to carry them on throughout a lifetime.
- d. Intellectual Competency -To insure continued participation in physical activities, the student will be expected to acquire adequate knowledge of the rules and strategies that apply to the various activities. Prerequisite: N/A

#### **STRENGTH & CONDITIONING** (Two Semesters - grades 9-12) 1 credit

This course is designed as an introductory course to athletic conditioning and strength training. This class will promote students' knowledge in developing, tracking, and learning resistance training as it relates to athletics. Students will be instructed in the basic principles of strength training and conditioning. Prerequisite: N/A

### **SCIENCE**

#### **ANATOMY/PHYSIOLOGY** (One Semester--grades 11-12) 1/2 credit WEIGHTED

Human anatomy/physiology students study the structure and function of the human body. This course includes a detailed study of the major organ systems in the human body . . . aided by the dissection of the fetal pig. Human anatomy/physiology is designed for students interested in entering the health care profession: medicine, nursing, physical therapy, etc. or any field of science. Prerequisite: Biology

#### **BIOLOGY I** (Two Semesters--grades 9-12) 1 credit

This is a full year survey course of the five kingdoms of living organisms. Special emphasis is given to cellular and molecular biology of the basic unit of life in all organisms. Units in microbiology, genetics, and botany will also be included. Prerequisite: N/A.

#### **CHEMISTRY** (Two Semesters--grades 10 -12) 1 credit WEIGHTED

This is a yearlong course that is considered part of the physical sciences. Chemistry is primarily a laboratory course with emphasis on a review of the elements, a quantitative portion (study and test basic laws of physical properties of the elements), and a qualitative portion (to study and test basic patterns of chemical reactions). Students will find this course a value as an important background for later study of life science, environmental science, or medicine, and to understand the underlying order of nature. A good math background is helpful. Prerequisite: Biology and Algebra I or Algebra Ia & Ib

#### **PHYSICAL SCIENCE** (Two Semesters--grade 10-12) 1 credit

Hands-on laboratory investigations, individual studies, and group activities. Using available technology, students will investigate forces and motion, the chemical and physical properties of matter, the ways in which matter and energy interact within the natural world and the forms and properties of energy. Conservation of matter and energy is an underlying theme throughout the entire course. Physical Science will provide the knowledge, prerequisite skills, and habits of mind needed for problem solving and ethical decision making about matters of scientific and technological concern, earth and space science, as well as, provide a basic foundation for advanced studies in chemistry and physics. Prerequisite: N/A



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### **PHYSICS** (Two Semesters--grades 11-12) 1 credit WEIGHTED

The course is a physical science course concerned with the relationship between matter and energy. A very intensive review of trigonometry and quadratic equations is covered in the first few weeks of the course. The course takes both a formal approach to physics and an experimental approach as all of the traditional concepts from mechanics to nuclear physics are studied. Prerequisite: Biology and Algebra I or Algebra Ia & Ib

### **ZOOLOGY** (One Semester--grades 11-12) 1/2 credit WEIGHTED

Zoology is the study of animals. This one semester survey course will cover the animal kingdom from sponges to mammals. Laboratory study and dissection of animals will be a major emphasis in this class. Prerequisite: Biology

### **SOCIAL STUDIES and SOCIAL SCIENCES**

#### **AMERICAN HISTORY** (Two Semesters--grade 11-12) 1 credit

This is a chronological study of the history of the United States from its earliest beginnings of European exploration to present day participation in global affairs. A comprehensive study of each of the following is included: The period of colonial rebellion, the issue dividing the nation before and after the Civil War, and the involvement by the U.S. in both World Wars.. A knowledge of familiar historical leaders and locations of significant historical sites is stressed. Most importantly, the student is asked to draw connections between past and present events and to help perpetuate the American democratic system. Prerequisite: N/A

#### **\*ANCIENT CIVILIZATIONS** (One semester – grades 9-12) ½ credit

This course will study the rise and fall of great states and empires, especially highlighting the lasting impacts these great cultures had. Specific civilizations that will be studied are the Greek, Roman, and Persian Empires, with a special emphasis on the accomplishments of Alexander the Great, extending to the beginning of the Roman Empire through the reigns of Julius Caesar and Caesar Augustus. Prereq: N/A

#### **CIVICS** (One Semester--grade 10-11) 1/2 credit

A class designed to help students identify and interpret their rights and responsibilities as U.S. and Illinois citizens. Role-playing, research projects, discussion groups, and outside speakers will be added to the required study of the U.S. and Illinois Constitutions. The citizen's role in society will be emphasized throughout the course. Prerequisite: N/A

#### **ECONOMICS I A – MICRO** (One Semester – grades 11-12) ½ credit WEIGHTED

Economics 1 - This course introduces microeconomic concepts and analysis, supply and demand analysis, theories of the firm and individual behavior, competition and monopoly, and welfare economics. Students will also be introduced to the use of microeconomic applications to address problems in current economic policy throughout the semester.

#### **ECONOMICS II B – MACRO** (One Semester – grades 11-12) ½ credit WEIGHTED

Economics 2 - This course provides an overview of macroeconomic issues: the determination of output, employment, unemployment, interest rates, and inflation. Monetary and fiscal policies are discussed. Important policy debates such as, the sub-prime crisis, social security, the public debt, and international economic issues are critically explored. The course introduces basic models of macroeconomics and illustrates principles with the experience of the U.S. and foreign economies.

**\*HISTORY OF CONSPIRACIES** (One Semester – grades 9-12) ½ credit History of Conspiracies will focus on five major conspiracies: The Moon Landing, The JFK Assassination, 9/11, Area 51 and Aliens, and Medical Conspiracies. Students will engage with the official narratives and various conspiracy theories about each topic. The course will begin with an in-depth look at how to vet sources and distinguish between reliable and unreliable information. The crux of the course will be to teach students how to effectively filter erroneous information.

#### **\*HISTORY OF THE FORGOTTEN PEOPLES** (One semester – grades 9-12) ½ credit

History of the Forgotten Peoples will focus on those groups that have been marginalized in the traditional textbooks of US history. This class will follow the important contributions of groups of people such as Native Americans,

## COURSE OFFERINGS

women, African Americans, immigrants, and Hispanic Americans. This class will seek to place these groups in their proper place in US history. Prereq: N/A

### **\*HISTORY OF HUMAN THOUGHT** (One semester – grades 9-12) ½ credit

This course will seek to understand the development of major ideas in human history. The course is intended as an introduction to the most interesting and important authors, events, ideas, movements, and institutions in human thought and culture. We will study many different areas of cultural and intellectual life, with special attention to philosophy, social thought, political theory, psychology, the physical and biological sciences, creative literature, and the visual arts. Prerequisite: N/A

### **\*HISTORY OF SPORTS** (One semester – grades 9-12) ½ credit

Focus on the origins of athletic competition from the early Greek Olympics to modern team sports and their evolutions. Prereq: N/A

### **\*HISTORY OF TERRORISM** (One semester – grades 9-12) ½ credit

This course will seek to define the term terrorism and allow students to understand that terrorism and terror tactics are more diverse than the typical term we think of today. Specific examples through history that will be studied are the Spanish Inquisition, the Ku Klux Klan, the Tamil Tigers of Sri Lanka, the Palestinian Liberation Organization, individual acts of terror such as Timothy McVeigh and Ted Kaczynski, as well as an in depth look at contemporary terror groups like Al-Qaeda. A special emphasis will be placed on the ideology of tactics of each group. Prereq: N/A.

### **SOCIOLOGY** (One Semester--grade 12) 1/2 credit

Sociology is taught at the senior level to provide meaning for these students in our rapidly changing world. By giving students an understanding of human relationships, sociology can help them play an informed role as citizens in shaping their environment. The course will be useful as these students make important decisions in the near future as community leaders and as voters. Students will gain an insight into how the society is structured and how it functions. Also, students will have the opportunity to develop an interest in the social world that will extend beyond the sociology course itself. Prerequisite: N/A

### **PSYCHOLOGY** (One Semester--grade 12) 1/2 credit

Psychology is taught using the personal-adjustment approach. The topics of research, influences of biological and environmental factors, learning, memory, intelligence, mental health and mental illness are emphasized. Basic supplemental exercises are used to give students a better idea of how human behavior affects themselves and other around them. Prerequisite: N/A

### **\*WORLD HISTORY** (Two Semesters--grades 9-12) 1 credit

A two-semester class which is divided into four main areas of study. Those areas of study are designed to give students an overall, generalized view of the world's events. They are divided as follows: Greek and Roman Times, Renaissance Age, Industrial Age and Modern Times.

After studying these four major areas, students should be able to identify and interpret significant trends, movements, persons and their contributions to the course of the world's history. Short research projects, map work, role-playing, and discussion groups will be added to the regular textbook assignments. Prerequisite: N/A

### **\*WWII/HOLOCAUST** - (One Semester – grades 9-12) ½ credit

World War II and the Holocaust is a class in which the second world war will be examined in totality. Areas of study will include each of the major world powers involved, with a focus on the lasting effects of WW I as a precursor to WW II. The two major theaters of war (European and Pacific) will be examined, along with the lasting effects of peace and the transition to the Cold War. As a separate component, the anti-Semitic culture evolving in the German Empire from 1871 through the rise of the Nazi political party will be examined to understand how a society can commit atrocities such as the Holocaust. Nazi Germany policies will be studied to understand the methodology and efficiency in which the Holocaust was carried out.

## ELECTIVE

### **COLLEGE AND CAREER EXPLORATION** (One Semester--grade 10-12) 1/2 credit

## COURSE OFFERINGS

This one-semester course is designed to introduce career paths and college readiness. Students will research careers that match their interests, skills, and abilities. Students will then discover what path they need to take to achieve their career goals, whether that be college, certification, trade school, or apprenticeships. Prerequisite: N/A.

### **CURRENT EVENTS I & II** (One Semester for each—grades 9-12) 1/2 credit for each semester

This course is designed to help students become aware of and understand the events that shape our world, nation, state, and local area. This will be done through reading, video, lecture, discussion, research, and personal experience. This course features a brief, daily, online news broadcast titled, "CNN 10," bi-weekly news discussions, weekly article discussions, and a semester project. The class primarily focuses on up-to-date current events, issues, and debates both nationally and worldwide. Due to the nature of this class, the curriculum basically creates itself each and every day. Prerequisite: N/A.

### **SCHOOL PUBLICATIONS** (Two Semester – grades 11-12) ½ credit

This course is comprised of students willing to learn the production of school publications. Students will produce the yearbook, newsletter, and event programs. Units of instruction will include training in yearbook layout, publication design, writing news stories, interviewing, and use of photography and digital photography. Prerequisites: Fill-out application for review/approval & English Teacher Recommendation.

### **MT. VERNON AREA VOCATIONAL CTE PROGRAMS** (Available to eligible juniors and seniors)

#### **AVC AUTOMOTIVE TECHNICIAN I and II** (Two Semesters--grades 11-12) 1 credit **DUAL CREDIT**

Automotive service technicians use their high-tech skills to inspect, maintain, and repair automobiles and light trucks that run on gasoline, ethanol and other alternative fuels, such as electricity. The increasing sophistication of automotive technology now requires workers who can use computerized shop equipment and work with electronic components while maintaining their skills with traditional hand tools.

#### **AVC BASIC NURSING (CNA) I and II** (Two Semesters--grades 11-12) 1 credit **DUAL CREDIT**

Certified Nurse Assistant training is a first step for students to determine if they are interested in the nursing field. Students who complete Rend Lake College's CNA class are eligible to apply to take the state CNA registry examination.

#### **AVC BIOMEDICAL SCIENCE/HUMAN BODY SYSTEMS** (Two Semesters—grades 11-12) 1 credit **DUAL CREDIT**

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. Also, students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis.

#### **AVC FIRE AND SCIENCE I and II** (Two Semesters---grades 11-12) 1 credit **DUAL CREDIT**

Fire Science courses introduce students to the field of fire prevention and control and enable them to extend their knowledge through the use of chemical, physical, and engineering principles to understand factors involved in fires. Course topics typically include the chemistry of combustion, factors that influence fire (such as structural design and meteorology), and safety procedures.

#### **AVC MANUFACTURING I and II** (Two Semesters--grades 11-12) 1 credit **DUAL CREDIT**

The manufacturing technology program prepares graduates for supervisory or technical positions in manufacturing. Curriculum requirements are broad-based so that graduates can obtain employment in a wide variety of manufacturing areas. Some include quality control, production and inventory control, manufacturing processes, and computer-aided manufacturing. The technician will develop a fundamental knowledge of materials, manufacturing processes, quality processes, computer, electrical, mechanical and machine control systems related to manufacturing disciplines.