



“2012- 2013” COURSE DESCRIPTIONS

AGRICULTURE

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

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.

“New” BIOLOGICAL SCIENCE APPLICATIONS IN AGRICULTURE – BSAA I “Animals” (Two Semesters--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 Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Prerequisite: (Biology)

“New” BIOLOGICAL SCIENCE APPLICATIONS IN AGRICULTURE – BSAA II “Plants” (Two Semesters--grades 10-12) 1 credit (Offered 2013 – 2014)

This course is designed to reinforce and extend students understanding of science by associating basic scientific principles and concepts with relevant applications in agriculture. Students will examine major phases of plant growth and management in agriculture and the specific biological science concepts that govern management decisions. Topics of study are in the areas of initiating plant growth – germination, plant sensory mechanisms, enzyme action, absorption, and managing plant growth – photosynthesis, respiration, translocation, metabolism, and growth regulation. 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



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activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. Prerequisite: (Biology)

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: (Physical Science or Biology)

AGRICULTURE MECHANIZATION & TECHNOLOGY (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

"New" NATURAL RESOURCE (Two Semesters--grades 10-12) 1 credit

This course develops management and conservation skills in understanding the connection between agriculture and natural resources. Student knowledge and skills are developed in: understanding natural resources and its importance; fish, wildlife, and forestry management and conservation; and exploring outdoor recreational enterprises. Prerequisite: (Physical Science or Biology)

ART

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

This course would be a condensed version of all of the following focused courses. Students would be exposed to a wide variety of media but won't have the time to focus on any particular one. Pre: N/A

"New" DRAWING I (One Semester--grades 9-12) 1/2 credit

The focus of this course is to improve observational drawing skills and to learn perspective techniques. Students are trained in the techniques of a variety of media including pencil, charcoal, pen and ink, scratch board, colored pencil and pastel. Subject matter includes still life, landscape and portraits. A binder is kept to organize instructional materials and drawing exercises. This serves as a visual record of the students artistic progress. Pre: N/A

"New" 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: Drawing I

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

GRAPHIC DESIGN (One Semester--grades 9-12) 1/2 credit

This course is intended to communicate information and advertising through art. The focus is on studying and using layout/design concepts used in the graphic design field. Through the use of technology, primarily Adobe Photoshop C53, students will create projects related to the graphic design field. Pre: N/A



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BUSINESS/TECHNOLOGY

BASIC KEYBOARDING (One semester--grades 9-12) 1/2 credit

Basic Keyboarding is a one-semester course designed for students who need to work at a slower pace than the Keyboarding I course permits. This course will develop basic computer keyboarding skills with the major emphasis placed on CORRECT keyboarding techniques, proofreading, and editing. During this course emphasis is also placed on formatting simple business documents including business letters and reports. Placement in this course will be determined by student performance and teacher recommendation. This course will fulfill the keyboarding requirement for graduation. Pre: N/A

KEYBOARDING I (One semester-- grade 9-12)

Keyboarding I is a one-semester course designed to develop the numeric/symbol and numeric keypad keyboarding skills and concentrate on developing keyboarding applications skills including the production of documents that meet business standards. This course will fulfill the keyboarding requirement for graduation. Pre: N/A

COMPUTER APPLICATIONS I -- BEGINNING MS WORD (One semester--grades 9-12) 1/2 credit

This is a beginning level course in designing and creating documents in a Windows based environment. Students will learn to create, print, edit and format documents. 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. The course will develop employability skills as well as an understanding of the ethical considerations of using information processing equipment. Prerequisite: Basic Keyboarding or Keyboarding I.

WEB DESIGN One semester course – 1/2 credit

Students will learn the basics of web page construction and will practice their skills on projects including work on the school website. The students will learn the basics of Photoshop and Dreamweaver to produce web pages. Prerequisite: Basic Key, Keyboarding I or Computer Applications I

COMPUTER APPLICATIONS II -- BEGINNING MICROSOFT EXCEL SPREADSHEET 1 Semester Course - ½ Credit – Grades 11-12

This is a beginning level course in designing and creating spreadsheets in a Windows-based environment. The students learn to prepare and format Excel spreadsheets including learning to move data within and between worksheets and to insert formulas in a worksheet. In addition, students create charts and maps, insert clip art images in worksheets and create web pages. Students also learn to format numbers and text, create and use templates, utilize advanced functions, audit and automate worksheets and import from and export to other data sources. Prerequisite: Basic Key, Keyboarding I or Computer Applications I

OFFICE ACCOUNTING I (Two Semesters--grades 9-12) 1 credit **WEIGHTED**

Office 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 students will learn the basic accounting theories--journals, ledgers and various financial statements. Prerequisite: N/A

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. Starting with the graduating class of 2012 English is required for 4 years.



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LANGUAGE ARTS AND LITERACY SKILLS (Two Semesters--grade 9) 1 credit

This beginning course of study in English where students receive intensive instruction with emphasis on reading comprehension and writing skills. The goal is assist students acquiring a passing score on the PSAE tests during their junior year. In addition, study skills, note taking, organizational skills, listening skills, and test taking techniques will be learned. This class fulfills the requirements for Freshmen English and will be required to include English Plus Pre: N/A

ENGLISH PLUS (Two Semesters--grade 9) 1 credit

English Plus is a computer-driven class to increase skills in both literacy and grammar. Students will be placed in this elective English class based on 8th grade teacher recommendation and/or ACT Explore test results. Pre: 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. Preparation for both English and Reading portions of the ACT included in this course. Prerequisite: English II

ENGLISH IV – BRITISH LITERATURE (Two Semesters--grade 11,12) 1 credit

British Lit includes, but is not limited to, the study of short stories, poems, and novels written by British authors. This course also includes units in research techniques and speech. The course length is one year. Prerequisite: English III

RHETORIC AND COMPOSITION (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 an ACT score of 20 in both English and Reading.

PRINCIPALS OF EFFECTIVE SPEAKING (One Semester—grade 12) 1/2 credit **WEIGHTED DUAL CREDIT (COMM 1101) DUAL CREDIT PREREQUISITE – ACT or ASSET TEST REQUIREMENT**

Students learn the theory and practice of speech communications in order to develop proficiency in various interpersonal speaking situations. Performance required. Prerequisite: (Completion of Rhetoric and Composition required)

DRAMA (One Semester--grades 10-12) 1/2 credit (Offered 2013 – 2014)

An academic study of written dramas (Shakespeare: Hamlet, Tennessee Williams: A Streetcar Named Desire), films (Humphrey Bogart: Casablanca, The Maltese Falcon), comedy (Katherine Hepburn and Cary Grant: Bringing Up Baby, 1933, and The Philadelphia Story, 1940, and the musical (Singing in the Rain, Phantom of the Opera). Prerequisite: NA

THEATER ARTS (One Semester--grades 10-12) 1/2 credit (Offered 2013 – 2014)

~~First using the literature from the Drama class, then an original creation: learning and applying costume, set, and lighting design to a production in May. Prerequisite: Drama~~



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SCHOOL PUBLICATIONS (Two Semester – grades 9-12) 1 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. Prerequisite: Fill-out Application for Review/Approval & English Teacher Recommendation

FAMILY AND CONSUMER SCIENCES

CLOTHING AND TEXTILES (One Semester--grades 9-12) 1/2 credit

This course is planned to provide students the opportunities to develop knowledge and understanding of textiles, fashions, and fabrics and to assist them in meeting the clothing and fabric (fashion) product needs of themselves, families, and/or general public. The course content centers around developing student competencies in the following duty areas: selecting clothing and textile products using goal-making skills; meeting social, physical, psychological, and economic needs in evaluating, selecting, and caring for clothing and textiles; appraising clothing/textile products which contribute to health, safety, and comfort; maximizing resources in selecting, constructing, altering, repairing, and remodeling clothing/textile products; communicating intended clothing image to others; and approving decisions necessary for clothing and textile needs. Information and experiences providing students with an understanding of the psychological aspects of fabric products as related to the needs of people, and the jobs and careers using competencies related to textiles and fabrics are included through out the course. Prerequisite: N/A

FOOD AND NUTRITION I (One Semester--grade 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 OCCUPATIONS (Two Semesters--grades 11,12) 1 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

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

PARENTING (One Semester--grades 11-12) 1/2 credit

This course is designed to help students think through the responsibilities, satisfactions, and stresses of parenthood. Many types of parenting situations are examined. Stress prevention and management and the work of community agencies that help parents deal with various types of parenting crises are emphasized. The course content includes the following duty areas: managing and organizing parenting by applying decision-making and



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goal-setting skills; applying the basic principles of the parenting process; practicing health and safety standards as related to parenting; providing experiences which encourage parents and children to maximize resources; encouraging human relations skills in children/adolescents; and evaluating impact on parenting of family and career changes. Special attention given to the needs of teenage parents and to the importance of readiness for parenthood. Prerequisite: N/A

LIVING ENVIRONMENTS (One Semester--grades 11-12) 1/2 credit

Learning experiences are designed to provide students with basic knowledge and skills needed to select, acquire, maintain, and manage living environments that meet the needs of the occupants. The selection and care of housing and furnishings are related to factors such as social-economic conditions, individual tastes, psychological effects, aesthetic values, safety, sanitation, and energy conservation. The course content includes the following duty areas: locating and managing housing using goal-setting and decision-making skills; evaluating living space to meet basic needs; creating and maintaining living environments; ensuring health and safety; selecting appropriate resources in creating living environments; applying housing and home management choices relating to changing family/individual and career patterns. Emphasis will be placed on the application of basic management principles as they relate to the environment. Prerequisite: N/A

ADULT LIVING (One Semester--grades 11-12) 1/2 credit

This course is designed to assist individuals and families in achieving life satisfaction through responsible participation as adults in the home, community, and workplace. Emphasis is placed on the development of prevention strategies which will assist individuals in responding to situations in terms of their identified values and goals. The course content includes the following duty areas: developing short and long-range plans; demonstrating goal-setting and decision-making skills; evaluating and adapting basic needs to assume roles and responsibilities; recognizing and following health practices that assist in coping, selecting, and using resources to enhance individual growth and development; developing effective relationships to promote communication with others; and evaluating family and career changes as to the impact on individuals. Various resources to assist with life problems are explored. Prerequisite: N/A

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. (Stage One Beginning) 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. (Stage Two Beginning) Prerequisite: Spanish I

SPANISH III (Two Semesters--grades 11-12) 1 credit WEIGHTED DUAL 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



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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. .(Stage Three Intermediate) Prerequisite: Spanish II

SPANISH IV (Two Semesters--grades 12) 1 credit WEIGHTED **DUAL 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. .(Stage Four Advanced/Intermediate) 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 TRAINING (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 after completing 50 hours BTW outside of class with 10 hours being at night, 9 months driving on their permit and being at least 16 years old. Prerequisite: Passing eight (8) classes in the previous two semesters and the first day of class be at least 15 years old.

MATHEMATICS

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

This course covers the first half of what is being covered in Algebra I. Must include Math Plus.
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. Must include Math Plus.
Prerequisite: Algebra Ia

MATH PLUS (Two Semesters – grades 9-10) 1 credit

This course provides the opportunity for students to work at an individual pace at a level that will best meet their needs. The students will be using ALEKS which is a web-based artificially intelligent assessment and learning system. The ALEKS system helps to improve overall math skills by assessing students to determine what the student knows and then instructs the student on the topics they are most ready to learn. Students will be placed in this course during their freshman and sophomore years based on teacher recommendations as well as the Explore and Plan test scores given at the end of the 8th and 9th grades.

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.



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APPLIED MATH (Two Semesters--grades 10-12) 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. The course will also offer PSAE/ACT preparation. Prerequisite: Algebra I or Algebra Ia & Ib

GEOMETRY (Two Semesters--grades 9-12) 1 credit WEIGHTED

Included in the course is a standard list of geometric theorems with emphasis paid to geometric proofs and constructions. Also covered in 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 or Algebra Ia & Ib

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

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.

ALGEBRA III AND TRIGONOMETRY (Two Semesters--grades 10-12) 1 credit WEIGHTED **DUAL CREDIT**

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 – ACT or ASSET TEST REQUIREMENT

MUSIC

VOCAL MUSIC (Two Semesters--grades 9-12) 1 credit (Offered 2013 – 2014)

~~Singing in harmony with a group of other singers, learning healthy vocal techniques, learning basic rhythms. May be taken more than once. Prerequisite: N/A~~

INTRODUCTION TO MUSIC AND APPLICATIONS (One semester-grades 9-12) 1/2 Credit

Learning rhythm by playing rhythm instruments, learning to read notes while playing a recorder, some basic keyboard instruction and applying that knowledge by learning to play a band instrument, with additional music history. Prerequisite: N/A

MUSIC APPRECIATION (One semester-grades 9-12) 1/2 credit

Music theory, keyboard instruction, and the history of American musicals, music history from the Middle Ages through the 20th Century.

Prerequisite: Recommended Introduction to Music and Applications

BAND (Two Semesters--grades 9-12) 1 credit (Offered 2013 – 2014)

~~This course is designed to develop the student's skill as an instrumentalist. Emphasis will be placed on technique, sound, and style while playing in an ensemble setting. May be taken more than once and are for those students who already play a band instrument. Prerequisite: N/A~~



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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 an adequate knowledge of the rules and strategies that apply to the various activities. Prerequisite: N/A

Note: Exempt when taking: Health, Driver Education or Resource Management

SCIENCE

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 ecology, genetics, and evolution. Cellular biology and microorganisms will also be included. Some laboratory exercises will also be part of the course of study. Prerequisite: N/A.

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

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

This is a yearlong course that is considered part of the physical sciences. Chemistry is a 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

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. Some laboratory exercises will also be required. 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

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



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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

SOCIAL STUDIES

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

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

WORLD HISTORY (9-12) (Two Semesters--grades 9-12) 1 credit (Offered 2013 – 2014)

~~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. (accelerated) Prerequisite: N/A~~

"New" ANCIENT CIVILIZATIONS (One semester--grades 9-12) 1/2 credit (Offered 2013 – 2014)

~~Ancient civilizations 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. Prerequisite: N/A~~

WORLD GEOGRAPHY (9-12) (Two Semesters--grades 9-12) 1 credit

A two-semester class which studies the basic map and globe skills needed to understand the world's major regions and countries. The skills studied during the first semester involve learning to read diagrams of elevation, cross sections, populations, and climates. These skills are used to help explain the relationship between climate, weather, space, vegetation, and soils to economic development and cultures across the globe. The second semester involves a more intensive study of the following major regions of the world: Western Europe-United Kingdom, Nordic Countries, France, Germany, Spain, Italy, and Greece Eastern Europe-Soviet Union Middle East-Iraq, Iran, Egypt, South Africa South & East Asia-India, China, Japan, Korea, Southeast Asia Pacific-Australia Latin America-Mexico, Central America, the Caribbean and South America. Prerequisite: N/A



"2012- 2013" COURSE DESCRIPTIONS

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

"New" HISTORY OF THE FORGOTTEN PEOPLES (One semester-grades 9-12) 1/2 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, women, African Americans, immigrants, and Hispanic Americans. This class will seek to place these groups in their proper place in US history. Prerequisite: N/A

"New" MODERN US HISTORY (POST-WWII) (One semester-grades 9-12) 1/2 credit

Modern US history will focus solely on American history after the end of World War II. Topics include issues such as the Cold War, the Space Race, the rise of feminism in the 1970's, extensive coverage of the 9/11 attacks and the aftermath (i.e. the Patriot Act), popular culture from the time period including music, movies, sports, and fashion, the explosion of communication forms such as the Internet. Prerequisite: N/A

"New" HISTORY OF SPORTS (One semester-grades 9-12) 1/2 credit

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

"New" HISTORY OF TERRORISM (One semester – grades 9-12) 1/2 credit

History of terrorism 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. Prerequisite: N/A

AREA VOCATIONAL CENTER (Available to eligible juniors and seniors that apply early and limited to 20 students)

AVC Health Occupation Core Skill (Two semesters--grades 11-12) 2 credits **DUAL CREDIT**

This class is open to junior and senior students who have an interest in the health field. Students spend time in the classroom learning basic medical terminology, body structure and function, and mastering tasks for various medical occupations. Second semester students are rotated through clinical departments such as: x-ray, occupational therapy, surgery, dietary, and central sterile. Students are responsible for a white uniform and white shoes. Prerequisite: N/A

AVC Health Care Aide (Two semesters--grade 12) 2 Credits **DUAL CREDIT**

This class is open to seniors who have the desire to go into the nursing profession. Conditions of illness, nursing tasks, and advanced medical terminology make up the classroom work. Students will receive a certificate of completion in Basic Nurse Assistant Training upon successful completion of the course. Supplies needed for this course: watch with a second hand, white uniform and white shoes. Prerequisite: Health Occupation Core Skill.

AVC Child and Day Care Service Occupation (Two semester – grades 11-12) 2 credits **DUAL CREDIT**

The emphasis will be placed on administration of care facilities. Students will learn about caring for infants, toddlers, preschoolers, school age children, special needs children and adults. Career opportunities, communications skills, human relations, and service needs of clients will be included. Major learning experiences will consist of practicums in various child and/or adult day care center in the communities and participating schools.



"2012- 2013" COURSE DESCRIPTIONS

AVC Transportation I (Two semesters--grades 11-12) 2 credits **DUAL CREDIT**

This course is a full year course that offers both theory and practical experience in servicing and repairing transportation and utility vehicles (auto, diesel, gasoline engine, and mower units). Some of the popular learning activities include tune-ups, brake repair, wheel balancing and adjustment, fuel system service and electrical system repair. Prerequisite: N/A

AVC Transportation II (Two semesters - grade 12) 2 credits **DUAL CREDIT**

This course is a continuation of AVC Transportation I with special emphasis on troubleshooting skills and diagnostic procedures. Prerequisite: AVC Transportation I

AVC Drafting/CAD I (Two semesters--grades 11-12) 2 credits **DUAL CREDIT**

This course is for students who are interested in careers in drafting, design, architecture, construction management, interior design, graphic arts, engineering and other related professions. Students will learn to make drawings and read blueprints in the same manner as professionals in the careers listed above. They will learn to use computer aided drafting (CAD) to make drawings by computer. No previous experience with computers or drafting is needed. Prerequisite: N/A

AVC Drafting/CAD II (Two semesters--grade12) 2 credits **DUAL CREDIT**

This course builds on the skills developed in AVC Drafting/CAD I and allows the student to begin learning to perform tasks in a selected specialty. Students who successfully complete this course will be prepared for beginning employment and (or) greater success in college or technical programs. Prerequisite:AVC Drafting/CAD I

AVC Electronics I (Two semesters--grades 11-12) 2 credits **DUAL CREDIT**

This course provides learning experiences related to the testing, maintenance and repair of electronic circuits and equipment. An emphasis is placed on computers and digital electronic circuits. Lab experiences are provided for all topic areas. Prerequisite: N/A

AVC Electronics II (Two semesters--grade12) 2 credits **DUAL CREDIT**

This course is a continuation of AVC Electronics I and provides advanced learning experiences related to the testing, maintenance and repair of electronic circuits and equipment. Prerequisite: AVC Electronics I

AVC Manufacturing I (Two semesters--grades 11-12) 2 credits

This course offers a planned sequence of learning experiences, which provide students with the opportunities to develop competencies needed for employment in a variety of manufacturing-related occupations. Course content will emphasize competencies common to many occupations such as applying safety practices, selecting materials, performing bench work operations, precision measurement, layouts, housekeeping activities and setting and operating a variety of tools. Prerequisite: N/A

AVC Manufacturing II (Two semesters--grade 12) 2 credits **DUAL CREDIT**

This course offers experiences which expand upon competencies achieved during Manufacturing I. Course content will include the following areas: introduction to metallurgy and heat treatment of metal, advanced machine set-up and operation, introduction to numerical computer control and repairs. Prerequisite: Manufacturing I

AVC Culinary Arts II (Two semesters--grades 12) 2 credits **DUAL CREDIT**

This advanced course after Woodlawn High Schools Food Service class provides classroom and laboratory instruction appropriate for the food service industry. Culinary skills will be further developed and reinforced in the areas of: selecting food, food preparation, planning menus, catering, quantity cooking, using commercial equipment, planning and decision making. More emphasis is placed on management/budgeting skills, human relations, and personnel selection and supervision. Training experiences involve equipment and facilities that simulate those found in business and industry. Student will be introduced and encouraged to participate in FCCLA leadership activities. Prerequisite: Food Services or Transfer Student Culinary Arts I



“2012- 2013” COURSE DESCRIPTIONS

AVC Computer Operations and Programming (Two semesters--grades 11-12) 1 credits **DUAL CREDIT**

This course must be taken the same time as 3-D Drawing and Animation. This course is designed to develop computer programming and program design skills through the use of various programming languages such as Visual Basic, C+, Java and other object-orientated languages. Students will be exposed to the fundamentals of system analysis and design. Students will apply what they learn to create programs and applications that solve real world business related problems. Students will create programs to store, locate and retrieve data. Prerequisite: N/A

AVC 3-D Drawing and Animation (Two semesters--grades 11-12) 1 credits

This course must be taken the same time as Computer Operations and Programming. This course is designed to provide students with a fundamental knowledge of 3-D modeling (drawing). The application of surfaces materials and textures, and basic animation. Integration of engineering and architecture fundamentals using 2-D to 3-D visualization methods and solid modeling techniques will be explored exposing CAD drafting students to up-to-date industry standard practices in 3D drawing. Prerequisite: N/A

AVC Pre-Engineering (Two semesters—grade11-12) 2 credits **DUAL CREDIT**

