

WEST FORK HIGH SCHOOL COURSE DESCRIPTIONS

West Fork High School Business and Technology Education Courses

ACCOUNTING (Two Semesters)

Accounting introduces students to basic concepts, fundamentals and skills necessary to plan, record, analyze and interpret financial information. Units of instruction include forms of ownership as they apply to the accounting cycle. Objectives that this course addresses include: career awareness, forms of ownership (proprietorships, partnerships, corporations), analyzing transactions, journalizing transactions, posting, cash controls, financial statements, and adjusting and closing entries. Students will also apply their knowledge and skills as they complete business simulations at various intervals throughout the year. This course provides a basic, introductory awareness and understanding of the language of business.

ADVANCED COMPUTER APPLICATIONS (One Semester) Pre-requisite: Computer Applications

Success in the electronic world in which we live is dependent upon proficiency on a computer keyboard and knowledge of computer applications. The focus of this course is divided into two areas. The first offers students an opportunity to review and apply basic keyboarding skills as they format advanced applications (word processing, spreadsheet, database) developed during the prerequisite course, Computer Applications. Desktop publishing, presentation graphics and internet integration will be introduced as well.

The second area of focus offers students an introduction to web page design. Objectives that this area will address include: background information about the World Wide Web, hypertext markup language, and web design fundamentals. Students will be able to apply this knowledge and skill as they design their own web page.

APPLIED BUSINESS (One Semester)

Applied Business offers students an overview of the phases and functions of business. Units of instruction include the characteristics, forms of ownership, information/communication systems, production/marketing management and contemporary issues of business. Objectives this course addresses include: entrepreneurship, concepts and resources needed to establish a new business, relationships between business and government, concepts of competition and supply and demand, business cycles, international trade, forms of business ownership, employee rights and responsibilities in the workplace, social and ethical issues, and career awareness. This course provides a basic, introductory awareness and understanding of the business world.

Part of the Applied Business experience includes the introduction and application of fundamentals relating to entrepreneurship. This involves an on-line program sponsored by the National Foundation for Teaching Entrepreneurship, Inc. called Biztech that will take students through a step-by-step process as they create and organize a small business. When the students are finished with this program, they will have a detailed business plan.

BUSINESS LAW (One Semester)

Business Law offers students an overview of law as it applies to individuals as well as businesses. Units of instruction include the nature and types of law, crimes, torts, contract law, and buying and selling goods. Objectives addressed in this course include: a brief history of law, citizenship, constitutional law, statutory law, administrative law, case law, business law, levels/types of courts, criminal law, civil law, punishment/damages, consumer law, contract law, and buying/selling goods. This course provides a basic, introductory awareness and understanding of business law.

COMPUTER APPLICATIONS (One Semester)

Success in the electronic world in which we live is dependent upon proficiency on a computer keyboard and knowledge of basic computer applications. Freshman Computer Applications offers students an opportunity to review and apply basic keyboarding skills as they format word processing, spreadsheet and database applications. Other activities allow students to create a calendar, letterhead, and a slide show presentation.

DIGITAL PHOTOGRAPHY

Digital photography has rapidly become a critical part of journalism, graphic design, web-site design, and fine art. This course covers the anatomy of the digital camera and what features to look for before you buy, how to compose quality photos in a digital environment, adjusting/modifying photos on the computer using Adobe Photoshop, and preparing photos for use in printed materials and on the Internet.

HOME/OFFICE COMPUTER MANAGEMENT

Have a computer that needs some help? Learn how to install memory, upgrade *Windows*, and scan for viruses. *This hands-on course will teach you how to connect computers and share files, bring pictures onto your computer, hook up that scanner and printer, and create a home computer network.*

RECORD KEEPING (Two Semesters)

Record keeping introduces students to basic fundamentals and skills necessary to plan, record and manage personal business activities or prepare students for entry-level careers in office or sales occupations. Units of instruction include opportunities to apply recording skills and develop work habits and attitudes. Objectives this course addresses include: career awareness, budgeting, credit records, cash control systems, sales, accounts receivable/payable, stock records, purchase orders, financial statements, and payroll. Students will also apply their knowledge and skills as they complete business simulations at various intervals throughout the year. This course provides a basic, introductory awareness and understanding of record keeping and could serve as an introduction to Accounting.

WEB DESIGN Pre-requisite: Computer Applications

This class covers the basics of building a Web page. Students will learn basic coding with HTML and explore web development products such as Netscape's Composer to build a web page. Students will also learn how to post a web page on a web server to be seen on the Internet, add graphics, change fonts, add colors, develop navigation, and design tables.

West Fork High School Family and Consumer Science Courses

FCS fundamentals - offered 1st and 2nd semester

Relationships - romantic, friendship, child-parent

Child Development - trips to the kindergarten with lessons the students have prepared learning about 4, 5, and 6 year olds

Textile Design - construction of a quillo, laundry techniques, clothing repair

Housing Design a plate for use in the home

Food and Nutrition – food pyramid / exercise

breakfast, breads, prepare a meal, cake evaluation

The following classes are available to 10, 11, & 12

Food and Nutrition - 1st semester offered 2 different blocks

Wake up to Breakfast / Food Borne Illness / Measuring / Baking Powder Biscuits
Kitchen Safety / Food Preservation / Applesauce / Salsa
The New Food Pyramid / Real Mac & Cheese / Potatoes / Gravy / Vegetables
Team Building / Etiquette / Table Setting / Community Service Noodle Making
Grocery Shopping / Eggs / Plan 3 days of meals using only fast foods / Carving Pumpkins / Roast Pumpkin
Seeds / Pumpkin Pie
Vitamins / Minerals / Food Brain Mapping / Veterans' Day / Civil War / WW1 Era Foods / Food
Comparisons/ Cost of Ingredients
Yeast Breads / Eating Disorder Reports
Cooking Meats (Hamburger, Pork, Chicken) / Water / Quick Breads / Caffeine / Holiday Cookies and
Candy
Cost of Ingredients / Prepare Full Meal / Quick Meals / Write Nutrition Article for Newspaper

Child Development and Housing alternate each year.

Child Development

Develop Lesson Plan Around Finger Jell-O Activity / History of Children & Childhood / Parents &
Parenthood
Pregnancy / Read Novel / Preparing For Birth / Cost of a Child's First Year / Birth Defect Reports / Write
Article for Newspaper
Investigate & Evaluate Child Care Options / Baby's Arrival / Sugar Baby Activity / Reading to Children /
Book Report / Display Due
Physical/ Emotional/ Social/ Intellectual/ Development of 1st Year, 1 - 6 years / Health / Safety / Nutrition
of Children Tots, Technology & Other Childhood Gadgets Reports / Observations / Write a Children's
Story
2nd quarter - Plan Theme Party for Preschool and Implement Theme Party at Preschool / spend time at
preschool
Write Article for Newspaper
Investigate Careers in Child Care

Housing

Room Biography / What Home Provides / Housing Trends / Color
Elements and Principles of Design
Select projects from list provided
Architecture and Home Design Assignment
Stockman House and Rock Glen Tour / Frank Lloyd Wright Research
Better Homes and Gardens Arrange-a-Room / House Hunters / Design on a Dime / Decorating Difficult
areas
Curb Appeal / Front Elevations
Design a Home / Field Trip - Diamond Vogel, McClouskeys, Slumberland / Furniture Style / Landscaping /
Window Treatments
Careers in Design

Family Living and Financial Literacy -

Manners /Leadership / Citizenship / Work in Families to Identify a Problem - Steps to Solve it, Central City
Simulation
Budgeting / Checkbook / Credit Cards / Credit / Loans / Insurance / Investing
Identity Theft / Investment Fraud / Buying a Vehicle
Relationships / Communication Challenge / Dating / Healthy Relationships / Describe Perfect Spouse
Preparing for Freedom - How much does it cost to leave home
Aging / Visits Residents at Nursing Home / Death and Dying / Tour the Funeral Home
Generate Surveys about Families, Present and Analyze Results

Food and Nutrition Two (Food and Nutrition One required first) - 2nd semester - each year

Introduction to Culinary Arts/ Food Safety/ Hand Washing / Milk / Milk Lab: vanilla ice cream; crème brulee; baked custard; chocolate pots de crème / Caffeine / Crescent Lab / Nutrients: Minerals and Vitamins / Video: ABC's of Vitamins / Assignment: Food Diary for Eight Days
Nutrients: Minerals and Vitamins Continues / Fats / Cookie Lab using different Fats / Valentine Cookies / Muffins - Different Sweeteners / Substitutes
Muffin Bake Off / Carbohydrates: Pros and Cons / Noodle Lab / Pasta Lab: Pasta with Oil, Garlic and Cheese; Fettuccine Alfredo; Fettuccine with Italian sausage Healthy Eating / Design Healthy Menus / Whole Grain Breads: corn, multigrain; molasses brown; 7 grain
Foreign Foods: Mexico / Italy / North Africa / Report on Foods from another Country, Prepare a Dish Native to the Country / Color Easter Eggs / Eggs / Egg Cook-off / Food Trends / Developing New Products / Brownies Galore / Marketing New Product / New Product Competition
Elegant - Low Cal Desserts / Potluck / Water / Protein / Purchasing Meats / Cookout / Picture Perfect Cheesecakes / Garnishes / Careers in

Textile Design

Design elements in textile design /Research the use of quilts during the Underground Railroad
Create new textile designs / Design your own fabric for quilting /
History of quilting / the history of any quilts in your family and the history of the person who quilted it
Sketch and design a new quilt pattern that illustrates one of the four color schemes – monochromatic, complementary, triad, and analogous.
Search out a trash item from Tulls, the Sharing Shoppe, or any second hand store. The item to be turned into or improved to use as an item for your room.
The finished products will be judged and prizes will be awarded. The three categories are: Most unique / Biggest transformation /Cleverest use of original product
Design and Complete a Queen Size Quilt

West Fork High School Foreign Language

Spanish I (Two Semesters)

This course will introduce students to a new language and culture. Emphasis will be placed upon writing, speaking, and listening to the Spanish language. Vocabulary and grammar will be utilized on a daily basis. Culture, another aspect to any language, will be discussed by students through topics such as song, food, literature, art, and the Hispanic people themselves. Students will also work in groups on skits and do some map work pertaining to geographic regions of Spain, Central America, South America, and Mexico. Students will complete tests and quizzes on a regular basis. Oral proficiency will also be tested.

Spanish II (Two Semesters)

This course will give the student a broader understanding of the Spanish language. It will be a continuation of the Spanish language. Students will further explore verb tenses and fundamentals of grammar. More emphasis will be placed on oral proficiency enabling the student to utilize vocabulary on a daily basis. Students will be expected to write a short research paper on a Spanish-related topic later in the year. Students will complete tests and quizzes on a regular basis.

Spanish III (Two Semesters)

This course continues where Spanish II ended. The students continue to learn more fundamentals of Spanish grammar as they change textbooks which place more of an emphasis on speaking and writing. Impromptu speeches and short papers on specified topics help develop these two skills. A workbook also accompanies the text which gives the student extra help with vocabulary, sentence structure, grammar, etc. A few chances for the students to cook a Spanish meal are interspersed throughout the year.

Spanish IV (Two Semesters)

This course will complete the Spanish text used in Spanish III. With the grammar studied in details, concentration is then placed upon Spanish culture. The country, its history, politics, food, people, entertainment, etc. are studied. A unit covering Cervantes Don Quixote is also part of this class. Students read and translate two books of this Spanish classic. Cooking is also done throughout the year when time permits. Students are encouraged to use the language at all times. Midway through the year, students will write a research paper on a chosen topic. The paper will be an in-depth study of a Spanish related subject, paying close attention to grammar, mechanics and content.

West Fork High School Health

Health I (One Semester-Required)

This course is designed to help students examine their lifestyles, select goals, and make plans to achieve good health. This course will explore topics such as wellness, body systems, mental health, family health, growth and development, and nutrition. The course will also explore topics such as fitness and exercise, drugs, diseases and disorders, consumer and personal health, safety and first aid, and environmental health.

West Fork High School Industrial Arts

DRAFTING Prerequisite for taking any shop class

1 semester class

Offered both semesters

Freshman through seniors can take this class

Maximum students is 16-18

Drafting focuses on helping the student so that he or she can develop the capacity to plan and solve problems in an organized fashion. In drafting, the student is provided with the drafting fundamentals that range from: drafting techniques/ terms, sketching, dimensioning, multi-views / isometric drawings, pattern development, pictorials, CAD (Solid Works) and many more key elements to be successful.

WOODS I Prerequisite is Drafting

1 semester class

Freshman through seniors can take this class

Maximum students is 12-13

Woods I. is designed to assist the student in learning the fundamentals of working safely and efficiently with hand tools and power tools. In addition, the student will learn about various types of woods and their uses, how to figure board feet, and proper techniques to finish projects. During this class, the student will also make three to four projects depending on the amount time.

WOODS II. Prerequisite is Woods I.

1 semester class

Sophomores through seniors can take this class

Maximum students is 12-13

An advance course in woodworking with machines and joinery. Methods of work, materials used in projects, and tools are areas of study that will be emphasized. Three to four projects will be done during this class.

WOODS III. Prerequisite is Woods I. and II.

1 semester class

Juniors through seniors can take this class

Maximum students is 12-13

The student takes on his or her own project of incorporating the skills learned in Woods I. and II. . This project can be for example: a dresser, chest, or a cabinet. There will also be a small project that is assigned to do.

CAD Prerequisite is Drafting

1 semester class

Freshman through seniors can take this class

Maximum students is 9

In CAD, the student is engaged in learning the basic functions of Solid Works through guided instructions. Through these instructions the students are able to design various components in 3D imaging and format drawings. Some of the projects in this class are: cabinet design and a car mock-up.

METALS Prerequisite if Drafting

1 semester class

Freshman through seniors can take this class

Maximum students is 12 students

This class provides a comprehensive introduction to metalworking technology, its theory and practice, set-up and operation of oxyacetylene, arc welding, mig welding, metal lathe, and types of welding joints. This class exposes and prepares students for careers within the fields related to metals.

BUILDING TRADES/ CARPENTRY Prerequisite is Woods I. and II.

1 semester class

Juniors through seniors can take this class

Maximum students 10-12 students

Provides the student with a comprehensive overview of: tools, equipment, materials, and practices used in carpentry trade. This class affords numerous real-life projects that teach and enhance transferable skills.

West Fork High School Language Arts

Applied English (Two Semesters)

This is option two for juniors and seniors. The purpose of this course is to prepare students to enter the world of work after high school. This class is set up to model the expectations of employers. Each day the students will use a time sheet to record progress and then turn in the sheet at the end of the hour. The teacher will grade the time sheet and record a quality grade. Fridays will be lifelong reading/writing day where students will read or write during the hour. Students who are behind in work will have the chance to complete assignments. Those students who choose to do makeup work will be docked for not doing the lifelong reading/writing. Every fourth week students will be required to use the money they earned in the past month to pay bills (i.e. apartment rent, car payment, telephone bill, etc.). Students with money left over to put in the bank will be in the A or B range depending on the amount. Students who can barely pay all of their bills will be in the C grade range and students unable to pay all of their bills will be in the D or F range. Students will be allowed to work overtime to earn extra money. Along with this the students will read short stories, a novel, and do research on a career of their choice.

Creative Writing (One Semester)

This course will focus on creative writing in the form of short stories, poems and plays. The class will fuse the discussion of narrative elements with practical guidelines for writing fiction. Selected stories representing the best of contemporary American fiction, as well as a few classics - -will follow discussion of concepts and serve as useful models. Major areas of emphasis will include story form and structure, the writing process, atmosphere, point of view, comparison and these. Students who enjoy writing short stories or are contemplating writing the great novel should consider the course.

Drama (One Semester)

This one semester course is offered opposite of Creative Writing. The course will let students study and analyze the play scripts. Students will read, do skits, analyze and review several different scripts. Student participation and willingness to participate, attendance, written work, and quizzes will all be part of the student's grade.

English 9 (Two Semesters - Required)

This course will help students to improve their reading, writing, and thinking skills, as well as enhance their appreciation for literature. Students will read short stories, poetry, biography/autobiography, novels and drama. Some of the longer works which may be included, but not limited to, are: *Romeo and Juliet*, *A Christmas Story*, *Great Expectations*, and *Night*. Students will read some literature outside of class and may analyze their reading comprehension through written and/or oral book reports. Compositions will be written throughout the year, enabling students to express themselves with well-constructed paragraphs. There will be an introduction to research, which will include one SCMT High School Language Arts

English 9 continued. There will be an introduction to research, which will include one major research project. This will likely include a field trip to a larger library for the students to do their research and learn more about the library system.

English 10 (Two Semesters - Required)

This course will work on reading, writing, and vocabulary development. Students will read a variety of short stories, poems, and essays. Much writing will be connected to analyzing the material read in the class. Sophomores will continue to learn about William Shakespeare and read the play, *Julius Caesar*. Also students will read *Fahrenheit 451* by Ray Bradbury and *The Great Gatsby* by F. Scott Fitzgerald. Vocabulary development will be an important component of the class. A formal research paper connected to a historical event is required.

English 11 (Two Semesters - Required)

The American writers and the literature studied in the junior year are those who best reflect how they and their writing are representative of and reflect the events and happenings of their day. The students will be asked to take the writings and reflect on how the message is relevant to them today. They will do this by preparing and giving speeches, group presentations and projects throughout the year. Some of the writers that the students will be reading are: Anne Bradstreet, William Bradford, John Smith, Jonathan Edwards, Benjamin Franklin, Thomas Jefferson, Henry Wadsworth Longfellow, Edgar Allen Poe, Henry David Thoreau, Nathaniel Hawthorne, Abraham Lincoln, Walt Whitman, Emily Dickinson, and Edgar Lee Masters. The students will be graded using daily and unit quizzes along with several writing assignments throughout the year.

In addition to the short stories and poetry, students will also read two novels, *To Kill a Mockingbird* by Harper Lee and *The Giver* by Lois Lowry. In the spring of the year the students will write a five page research paper. This class is one option for juniors.

English 12 (Two Semesters)

This year long course is designed to expose college bound seniors to a variety of classic British authors including, but not limited to, Chaucer, Shakespeare, Swift, Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, the Brownings, Wells, Shaw, Lawrence, Austen, and Dickens. This course will also include a variety of writing techniques needed for college study. The students will write informative, argumentative, personal, literal, and college entrance essays. There will be one major research project. Students will be asked to share their work with the class orally and in written form. Vocabulary will also be studied. There will be at least one field trip, during the research project. If the opportunity to see a literary work is available, this will be a possible second field trip, and the cost of tickets will need to be covered by students.

Novels and Literature (Two Semesters)

Novels and Literature is an elective open to students who enjoy reading and want to increase their knowledge of literary elements. Students will read several novels as a class and then may branch out to select their own novels to read. *Lord of the Flies* by William Golding, *Anthem* by Ayn Rand, *The Eyes of*

the Dragon by Steven King and *The Red Badge of Courage* by Stephen Crane are some of the novels read as a class. Formal literary papers will also be assigned throughout the semester to enhance student understanding of the literature. Vocabulary will also be stressed in the class through SAT Vocabulary program.

Second Chance Reading (One Semester)

This program is especially designed for students who need some assistance with reading fluency, comprehension and vocabulary development. It is a research based program and has been proven to improve student reading through intensive strategies. Students are required to read at least 500 pages or more per quarter as part of the class.

Publications (Two Semesters - not an English credit)

This two semester course is open to juniors and seniors. Juniors who take the course are generally asked to do so with the expectation that they will take the class their senior year, so enrollment is limited. The purpose of this is to have an experienced staff from year to year. The primary objective of Publications is to produce the Yearbook and acquire skills in desktop publishing, page design and principles of journalism. Publications consists primarily of two divisions--page design and photography. The main thing to keep in mind about Publications is teamwork. Students may end up doing something that they did not volunteer to do, but nonetheless they will be expected to accomplish it cheerfully. There will be two field trips which will take place during the school year. One of these will consist of students driving to various businesses to solicit advertisements to help fund the yearbook. The other will include a seminar on the NIACC campus with our publisher.

Speech I (One Semester)

Speech I is intended to be a high school elective, covering one semester. It is designed for students wishing to improve communication skills, orally and visually. There will be some work with self-concepts, verbal and non-verbal communications, and listening. The main emphasis will be on speeches, such as: oral interpretation, interviews, pantomime, persuasion (sales talks), informative (hot-to and career speeches), and personal experiences (role-playing, possibly some group improvisation). Chapters from the text will be assigned for reading, outlining, and testing.

West Fork High School Math

Bridges to Algebra I- (2 semesters)

Transition class for students that will enter Algebra I at a later date. This course will reinforce basic math skills and introduce concepts of pre-algebra and pre-geometry.

Algebra IA – (2 semesters)

This class is designed for the student wanting to take Algebra I at a slower pace. The material covered in this class will be similar to the material covered in the first semester of Algebra I.

Algebra IB – (2 semesters)

This class is a continuation of Algebra IA. Material covered will be similar to the material covered in the second semester of Algebra I.

Algebra I (Two Semesters)

Algebra I is the foundation of higher level courses in mathematics, science, and computers. In our technological society many vocations and careers require a basic knowledge of Algebra. The course will

cover language and structure of algebra, algebraic expressions, solutions and applications of equations and inequalities, graphing, rational expressions, polynomials and factoring. A strong emphasis will be placed on work problems. Students will learn the skills through daily oral drills, discussion in class, and regular assignments. Success in this course comes from concentrated daily effort. Algebra I is targeted for the student possessing above average math skills.

Algebra II (Two Semesters) Pre-requisite: Algebra I and Geometry

Algebra II stresses both the structure of algebra and the development of computational skills. Problem-solving techniques are emphasized and refined through practical applications. The course content will consist of a rapid review at a more in-depth level of the concepts studied in Algebra followed by new topic of linear equations and inequalities, radicals and irrational numbers, complex numbers, conic sections, logarithms, and quadratic equations and functions. Students will be expected to complete regular assignments consisting of problems with a range of difficulty that will provide a challenge for the most able students.

Intermediate Algebra

Intermediate Algebra is intended for the student who would like to take Algebra 2 but at a slower pace than the regular college prep Algebra 2. Algebra 1 and Geometry are prerequisites for the course. Good Algebra 1 skills are needed to be successful in Intermediate Algebra. Some of the subjects covered are linear equations in one and two variables, systems of linear equations, rational expressions, and radicals. This class will not cover logarithmic functions. If a student is intending on taking higher level math classes in college and to be fully prepared, that student needs to take the college prep Algebra 2 class instead of the Intermediate Algebra class.

Basic Geometry (Two Semesters) Pre-requisite: Algebra IB or Algebra I

Basic Geometry is a class intended for the average math student who would like to pursue a course in geometry but is more interested in practical geometry than theoretical. The course content includes congruent triangles, polygons, areas, proportions, circles, area/volume of solids, and coordinate geometry. Constructions are interspersed throughout the year. Basic trigonometry is also covered. Formal proof is done only as a fill in the blank exercise.

Calc Prep (One Semester)

This is a first semester class designed for the student who plans to take the NIACC calculus class over the ICN. Ideas covered are functions, limits, continuity, derivatives, log and exponential functions, and analysis of functions. The class is intended to give the student basic knowledge of the sections covered in the NIACC class. In no way does it replace the NIACC class.

Computer Programming (One Semester)

This is a one semester class designed to teach students how to write basic programs in True BASIC. This is learned by doing class. Basic programming cannot be learned just by reading. Students should have completed or be enrolled in Algebra II. Reasoning skills are a great asset. The class will also give the student a better understanding of the capabilities of computers.

Geometry (Two Semesters) Pre-requisite: Algebra IB or Algebra I

Geometry is a two semester class intended for the average to better-than-average math student. The course content includes lines in a plane, properties of congruent triangles, properties of polygons and circles, basic trigonometry, coordinate geometry, and transformations. Concepts of space geometry is touched upon at the end of the year. Reasoning skills will be strengthened through questions that ask students to explain the answer. Hopefully students will see that geometry says a lot about how the world looks and how it works. A prerequisite for the course is Algebra 1 since algebraic skills are reviewed and strengthened through

application problems in geometry. Students should expect oral drills, daily assignments, and frequent quizzes.

Pre-Calculus with Limits (Two Semesters) Pre-requisites: Completed Alg II with a strong foundation

This course is designed for the junior student who intends to enroll in a calculus class either as a senior in high school or a freshman at college. Algebra I, Geometry, and Algebra II are prerequisite. The concepts of Algebra II are studied in depth with the aid of a graphing calculator. Approximately one semester is devoted to trigonometry. New topics covered include sequences, probability, statistics, and limits. Special emphasis is given to skills that are needed in calculus. Many examples include algebraic techniques or graphically show concepts that are used in calculus, providing an intuitive foundation for future work.

Trigonometry: (1 semester) Pre-requisite: Algebra II

This course is designed for students who want to pursue higher level math but not interested in calculus.

Statistics: (1 semester) Pre-requisite: Geometry

This course is designed for students who want to pursue higher level math courses and planning to attend college. Most business degrees and masters programs require a statistics course. This would help those students interested in these fields. A graphing calculator is required, preferably a TI-83 or TI-84.

West Fork High School Music

Instrumental Music (Eight Semesters)

This is a program designed to provide students with the opportunities of, personal growth, musical appreciation, and group cohesiveness. Students will

- continue to develop an understanding and appreciation for the basic elements of music and the mechanics of their personal instruments.
- express creativity and expression through performing
- increase awareness of listening within an ensemble
- evaluate both individual and group performances using musical vocabulary.

All Instrumental Music members will participate in: marching band, concert band, pep band, large group contest, and public performances. Members will also have the opportunity to perform in jazz band, participate in small group contest and music festivals, and take private lessons.

Vocal Music (Eight Semesters)

Music, known as the Universal Language, helps students develop various skills--both physical and mental--and provides a valuable form of expression. As is the case with most activities, the more the student puts into it, the more he/she will get out of it. In the high school vocal programs, students are exposed to a variety of musical styles (pop, spiritual, folk, classical, etc.) They also have the opportunity to participate in various musical experiences: solos, small groups, swing choirs, large groups, private lessons. The students take part in festivals, concerts, and contests.

All students will be in Mixed Chorus. There will also be a Treble Clef Chorus for all the girls. A Bass Clef Chorus will be available if the number of male participants warrants it. Other possibilities include a Swing Choir (mixed or female) for students who want to dance and sing to pop and jazz music and a Concert Choir who would perform a more challenging repertoire of music. These two groups may or may not be selected through auditions, depending on the number of singers interested. Each experience enhances the student's knowledge, ability and character. Music can be used and enjoyed throughout a person's entire lifetime.

West Fork High School Physical Education

PE-6 semesters required, unless waiver is granted

9th Grade Physical Education

This course will help each student with an opportunity to assess his/her fitness, to develop physically, mentally, and socially, to develop skills for both team and individual sports, and an understanding of how the various games and activities are played. Activities students will be involved in include: flag football, soccer, Lacrosse, CPR training, weight training and conditioning, fitness testing, self defense training, rappelling, volleyball, bowling, softball, basketball, and hockey. Criteria for grading includes: participation, knowledge of fundamentals, strategies and rules, interpersonal skills, individual effort, and conduct. SCMT High School Physical Education.....

10th Grade Physical Education

This course will help each student with an opportunity to assess his/her fitness, to develop physically, mentally, and socially, to develop skills for both team and individual sports, and an understanding of how the various games and activities are played. Activities students will be involved in include: flag football, soccer, Lacrosse, CPR training, weight training and conditioning, fitness testing, self defense training, rappelling, volleyball, bowling, softball, basketball, and hockey. Criteria for grading includes: participation, knowledge of fundamentals, strategies and rules, interpersonal skills, individual effort, and conduct.

Junior/Senior Physical Education

This course will help each student with an opportunity to assess the student's fitness level, to develop physically, mentally, and socially, to develop skills for both team and individual sports, and an understanding of how the various games and activities are played. Activities students will be involved in include: golf, bicycling, flag football, soccer, Lacrosse, weight training and conditioning, aerobics, fitness testing, rappelling, badminton, shuffle board, volleyball, bowling, basketball, and hockey. Criteria for grading includes: participation, knowledge of fundamentals, strategies and rules, interpersonal skills, individual effort, and conduct.

West Fork High School Science

Advanced Chemistry (Two Semesters)

Advanced Chemistry is a rigorous year-long course designed for junior and senior students who have successfully completed first year chemistry. The purpose of this class is to prepare students for college-level freshman chemistry, particularly accelerated freshmen chemistry courses. This course is strongly recommended for any student who will attend a four-year college and will major in any science, medical, engineering, and some Family and Consumer Sciences fields.

This course builds on first year chemistry concepts. Topics include bonding theories and intermolecular forces, solution chemistry and the chemistry of water, acid base chemistry, oxidation reduction chemistry, and organic chemistry.

PREREQUISITES: Successful completion of first year chemistry. Students are strongly encouraged to be enrolled in or to have successfully completed one year of physics.

Anatomy and Physiology (Full Year Course - Two Semesters)

Anatomy and Physiology is the study of the structure and function of our body parts. This course will cover anatomical terms and relative positions of body parts along with medical terminology. Subject matter will include organic chemistry and cell structure and function. Systems covered will be integument, skeletal, muscular, nervous, endocrine, circulatory, lymphatic, respiratory, digestive, urinary and reproductive. Labs will include microscopic study of healthy and diseased tissue slide samples from different body parts. Students are required to dissect a fetal pig, sheep brain, eye, kidney, and heart.

Prerequisite - Students must have received at least a C in Biology. This class is articulated with NIACC. Students will get 4 semester hours of credit. This class will replace Body Structure and Function at NIACC.

This class will count for the following programs at NIACC.

Medical Office Associate, Medical Transcription, Medical Office Specialist, Medical Assistant and Practical Nursing

Biology (Full Year Course - Two Semesters)

Biology is the study of life. This course will cover the following: 1. the life of a cell including photosynthesis, respiration, and cell reproduction; 2. genetics which includes DNA, genes, chromosomes, and how we inherit certain traits; 3. life's five kingdoms, monerans, protists, fungi, plants and animals. Labs will include dissection of the following: grasshopper, crayfish, starfish, and frog and dogfish shark.

Chemistry (Two Semesters) PREREQUISITE: Algebra I with a strong foundation and Algebra II is recommended

Chemistry is a year-long course designed for junior and senior students. It is divided into nine major learning areas. It is taught to enhance the student's awareness of major chemical concepts as they relate to common life experiences and societal concerns. It will be helpful to the student in experiencing successful academic achievement in future science as well as non-science studies.

The chemistry curriculum focuses on:

1. Ability to perform basic laboratory skills and techniques.
2. Skill in analytical, critical, and logical thinking
3. Ability to classify substances of the universe (i.e. - elements, compounds, mixtures and etc.)
4. Ability to illustrate and explain the structure of atoms.
5. Ability to use chemical data organized into tables and graphs (esp. the periodic chart).
6. Ability to illustrate the structure for compounds through the concept of chemical bonding.
7. Ability to work mathematical relationship associated with the concept of chemistry (i.e. - mole problems, percent composition, and stoichiometry)
8. Ability to use the chemical conventions for representing elements, compounds, and chemical reactions (i.e. - symbols, formulas, equations).
9. Understanding the basic concepts of energy changes involved in chemical reactions.
10. Interpret data from laboratory experiments, and use this data to infer relationships between variables.

Concepts will be developed through group and individual instruction, demonstrations, audio-visual aids, and laboratory experiences. Global and technological issues will be incorporated where applicable. Career opportunities will be emphasized throughout the year.

Chemistry is recommended for students who wish to continue their education beyond high school and is strongly recommended for those pursuing scientific and hi-tech careers.

Earth Science I (One Semester) - No Prerequisite

Earth Science I will cover the composition of the earth, reshaping of the earth's crust and the history of our planet. This will include the following: the earth's chemistry, minerals, and rocks. Weathering and erosion by water, wind, waves, and glaciers. The fossil record and geologic time scale. Labs will include testing different minerals and rocks of our planet earth.

Earth Science II (One Semester) - No Prerequisite

Earth Science II will cover the dynamic earth and its atmospheric forces. This will include natural disasters caused by plate tectonics, earthquakes, tsunamis, and volcanoes. Atmospheric forces which include natural

disasters caused by our weather and climate, tornadoes, hurricanes, blizzards, and floods. Labs will include students building an earthquake resistant building and making and erupting a volcano.

Environmental Science I (One Semester) - No Prerequisite

Environmental Science I will cover how species interact with each other, food chains, and the cycling of material (water, carbon, and nitrogen). How ecosystems change and the different kinds of ecosystems we have in the world. Also covered, endangered species in Iowa and around the world. Labs will include dissecting owl pellets.

Environmental Science II (One Semester) - No Prerequisite

Environmental Science II will cover our natural resources, water, air, land and food, energy and fossil fuels. Covered will be our quantity and quality of these natural resources. How we, as a people, are responsible for this and how we, as a people, can help save them for our future generations. Also covered will be the environmental policies of the United States. Labs will include testing for air and water quality and building solar cars to race.

Physical Science (Two Semesters) PREREQUISITES: SUCCESSFUL COMPLETION OF ALGEBRA II

Physical science is a one year course divided into nine learning areas. It combines theory and practice through laboratory experiences and classroom activities. Each unit of study contains activities which are set up to meet specific objectives. This helps each student know what he/she is expected to have learned as a result of studying the materials and references used for a given unit.

Physical science is taught to enhance the student's awareness of major scientific concepts in chemistry and physics as they relate to common life experiences and societal concern. It is hoped that the course will stimulate a desire for students to continue their science education.

We will include emphasis on environmental education, energy education, consumer education, and career and occupational education. We hope to instill an appreciation of science as a creative pursuit of knowledge. As a result of successfully completing investigations, the student would develop skills in analytical, critical and logical thinking. Interest in science and the development of scientifically literate citizens should also be outcomes of this course.

The concepts to be covered will be:

1. Scientific method and safety
2. Properties and classification of matter
3. Structure of the atom
4. Chemical reactions and bonding
5. Forces and motion
6. Work and mechanical energy
7. Heat and alternative energy sources
8. Wave theory (light and sound)
9. Electricity and magnets

Physics (Two Semesters)

A two semester elective designed for the college bound junior or senior. Physics is an introduction to the quantitative relationships and interactions of matter and energy. A strong math background is recommended, and anyone interested in engineering, mathematics, medicine or other professional/technical career is encouraged to enroll. The topics covered include quantitative measures, vectors, force, laws of motion and work, energy, Heat Kinetic Theory, waves, light and sound, and magnetism. The course requires a large amount of independent work and personal initiative. Assessment may include tests, labs, quizzes, and projects.

West Fork High School Social Studies

Consumer Economics (One Semester)

Economics is a course designed to teach students their roles as a consumer, a saver, and an investor. We will also learn how basic economic principles affect the ways that individuals, businesses, and nations make economic decisions.

Contemporary Issues (1 or 2 Semesters)

In this course the students study in-depth, the most controversial problems of the day. These problems range from foreign policy issues to the abortion issue, from crime to the environment. Students study the material in a variety of formats. Since there is no textbook available, other sources are used, such as newspapers and magazine articles. The class is discussion oriented. Cooperative Learning is also used to learn much of the material. Students are placed in groups where they work together researching different topics. Students, through individual and group effort, demonstrate their knowledge through a variety of activities, including oral reports, panel discussion, role playing, tests, etc. Though the instructor selects the topics for study, the students are required to present oral reports to the class on issues of their choice.

Psychology (One Semester)

In Psychology we study human behavior. We try to gain an understanding of why people act as they do, and examine various ways behavior can be changed so that people's lives can be made happier and more productive. A sampling of the topics we will examine: consciousness, the brain and behavior, understanding and helping the troubled personality, psychological testing, sex roles, sexism, and sexuality, exploring unknown worlds (the supernatural and parapsychology), and searching for new ways to grow.

Tests will follow each unit. These will be of a short answer and essay variety. Worksheets will be used to enhance learning.

Sociology (One Semester)

In this course we study how human beings live in groups and interrelate with each other. The textbook is the primary source of information. One chapter is studied at a time, followed by a chapter test. Students complete worksheets using the text or other related material as a source. Worksheets are followed by review lectures and discussions. Depending on the material, students are often required to apply knowledge from a chapter to their environment. Each student is to complete one project each quarter. Students select from a variety of project options.

United States Government (One Semester - Required)

In this course students examine the government of the United States. The material is presented in units, such as the branches of the federal government, political parties, constitutional rights, voting, elections, and the influence of the media. Students, through individual and group effort, demonstrate their knowledge through a variety of activities, including oral reports, tests, etc. Simulations are also used to imitate what government and politics are like in the real world. The course is designed to make students effective citizens that actively participate in the political process.

United States History (Two Semesters - Required)

In this course students examine major themes/issues in American History. The material is presented in units of topics. Emphasis is placed on U.S. History during the twentieth century although all of U.S. History is covered. Students, through individual and group effort, demonstrate their knowledge through a variety of activities, including oral reports, role playing, tests, etc. Each quarter students are required to complete a

group project. Students are frequently asked to make connections between the past and the present.

World History (Two Semesters)

World History is a course designed for the student interested in understanding the past and its relationship to the present. World History begins with the study of Prehistoric times and up to the present.

The study of World History will lead to knowledge, skills, and attitudes that the student can use effectively in the real and ever-changing world of today. Through the study of World History students will develop an understanding of previous accomplishments, global issues, and trends for the future.

West Fork High School Visual Arts Courses

Art 1

Art 1 is a two semester course designed to expose the art student to a variety of materials and to review those skills from previous art classes. Basic drawing skills are the basis for the course and are reinforced by weekly drawing assignments outside of regular class time. Drawing, painting, design and sculpture are explored on a quarterly schedule. Art appreciation and art history are included in the course. Grading and evaluation are done by exhibition, self-grading, teacher grading, quizzes, and brief reports. Students are required to exhibit three art works at Fine Arts Night at the end of the school year.

Drawing

Drawing is a fundamental skill in all art areas. Students must complete at least 1 semester of Art 1 or be taking Art 1 at the same time. All mediums, such as charcoal, oil pastel, pen & ink, colored pencil and mixed media are used during the course. Students are required to use copyright-free materials for their works and are given opportunity to draw from live models as well as the school and community surroundings. Weekly outside-of-class drawings are a requirement of the class.

Graphic Communications

An introductory course using Adobe PageMaker, Illustrator and Photoshop aimed at developing skills in visual communications, through the use of basic design principles to solve graphic and commercial type assignments. In-school publications and hands-on projects are an important part of the course. Outside of class drawings are required. No previous art classes need to be taken, but they are helpful.

Jewelry/metalworking

Jewelry/metalworking requires the student to complete at least one semester of Art 1 or be enrolled in Art 1 at the same time as taking the course. Students are required to know basic safety rules and follow them, identify jewelry making tools and understand how to use them, show competence in mechanical and soldering techniques. Low cost metals such as brass, copper and nickel silver are used in constructions. Outside of class drawings are required.

Painting

Painting is designed to allow the art student to explore the expressive qualities of using a variety of materials and the brush. The course includes study of the master artists, working in watercolor, acrylic, tempera, India ink, as well as sketch and washes pencil. Students are encouraged to explore thematic approaches to their work, as well as developing their own individual style. One semester of Art 1 needs to be completed or the student be taking Art 1 at the same time. Outside of class drawings are required.

Pottery

Pottery is a study of the nature and capabilities of clay and glazes. Students are required to work with pinch, coil and slab methods of building. Throwing on the wheel and using hand made molds are explored. Advanced pottery students are responsible for loading and firing the electric kiln. Outside of class drawings are a requirement of the course. One semester of Art 1 is required or the student is enrolled in Art 1 at the same time.

West Fork High School Vocational Agriculture

Vocational Agriculture I (Two Semesters)

Ag One is open to all sophomores and freshmen that have not taken the course. The course is best serve as a year long course, but students can join at second semester. First semester covers FFA/Ag Leadership, Animal Species, and Animal Body Structures. Second semester consists of Animal Nutrition, Animal Reproduction, Animal Genetics, and Animal Evaluation. This class is great for students interested in going into an Animal Science Career. *FFA participation is required since FFA is a co-curricular activity instead of an extra-curricular activity.*

Vocational Agriculture II (Two Semesters)

Ag Two is open to all sophomores and juniors that have not taken the course previously. The course is best serve as a year long course, but students can join at second semester. First semester consists of Soil Science, Fertilizer Requirements and Application, Crop Nutrient Deficiencies in Crops, and Agronomic Crops description. Second semester consists of Crop Science areas of Pest Management, Grain and Forage Quality, and Meat Science. This course is great for students interested in going into Crop Science Career. *FFA participation is required since FFA is a co-curricular activity instead of an extra-curricular activity.*

Vocational Agriculture III (Two Semesters)

Ag Three is open to all sophomores and juniors that have not taken the course previously. The course is best served as a year long course, but the students can join at second semester. This course consists of Agribusiness and Horticulture. We rotate back and forth depending on the items associated with the greenhouse and production items. Agribusiness items covered are Business Management Structures, Ag Sales, Ag Mechanics, Welding and Job Interview items. Horticulture items covered are Hydroponics, Floral Design, Plant Propagation, Growing Media information, and Growing of Poinsettias, Christmas cactus and spring plants. *FFA participation is required since FFA is a co-curricular activity instead of an extra-curricular activity.*

Vocational Agriculture IV (Two Semesters)

Ag Four classes are dual credit with NIACC and currently consist of Principles of Agronomy and Animal Science (each a semester long course). We are looking at starting a rotation to offer two more courses. This course is open to juniors and seniors that have previously taken an Ag course with passing grades. If students are planning on going into an Ag Career should enroll in these courses their junior or senior year. *FFA participation is required since FFA is a co-curricular activity instead of an extra-curricular activity.*