

BANNER COUNTY HIGH SCHOOL

COURSE DESCRIPTIONS

2006-2007

THE INTENT OF THIS DOCUMENT IS TO AID AND ASSIST STUDENTS AND THE COUNSELOR IN THE REGISTRATION PROCESS. THIS DOCUMENT MAY BE USED BY TEACHERS AND THE GUIDANCE COUNSELOR IN CONJUNCTION WITH THE CURRENT "CLASS SCHEDULE". THIS DOCUMENT **IS NOT** INTENDED TO BE USED FOR SELECTING CLASSES BUT AS A RESOURCE TO ACQUIRE DESCRIPTIVE KNOWLEDGE ABOUT A PARTICULAR COURSE.

This is a tool I use when visiting with students about their class schedules. The format (alphabetical index) reflects information about courses, NOT instructors or departments. – Ed Newland

HARRISBURG, NEBRASKA 69345

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Accounting 1

Length/Credits: 2 semesters / 10 hrs.

Grades 11-12

Prerequisite(s): None

Department: Business Elective

Description: Accounting deals with the planning, keeping, analyzing and interpretation of financial records. The course helps the student develop an overall picture of the total process of business systems. Such understanding is a good base for knowledge of keeping personal financial records or for those thinking of studying business at the college level. Areas covered include: analyzing business transactions, methods of recording transactions, and the preparation of financial statements. The study of automated accounting will be blended into the course to give a better working knowledge of modern accounting procedures and practice. Grades will be based on daily problems, study guides, simulations sets and chapter and unit tests.

Accounting II

Length / Credits: 2 semesters / 10 hrs.

Grades: 12

Prerequisite(s): Accounting I

Department: Business (Elective)

Description: Accounting II provides a more through coverage of accounting skills, concepts and automated accounting through the use of computers. The class will focus on entry level accounting positions and reparation for business courses at the college level. Areas of study include: automated departmentalized accounting, partnership, corporation, cost accounting. Grades will be based on daily problems, study guides, simulations and chapter and unit tests.

Advanced Math

Length / Credits: 2 semesters/ 10 hrs.

Department: Math Core (Requirement)

Prerequisite(s): - Algebra I and II, Geometry

| Advanced Math Concepts covered | | | |
|--------------------------------|-------------------------------------|---|---------------------------|
| Making Sense of Data | Functions and Models | Power, Exponential, and Logarithmic Functions | Trigonometric Functions |
| Probability and Simulation | Sequences, Series, and Combinations | Polynomial Functions | Matrices and Trigonometry |

Description: This class is designed to prepare the students for college math. We also use the TI-85 Graphing calculators. The students will be expected to bring some extra materials for projects we incorporate into class. Students are measured in these areas: class or individual projects, homework, quizzes, and tests.

Agriculture

Length / Credits: 2 semesters/ 10 hrs.

Prerequisite(s): None

Department: Science

Description: **Distance Learning** TBA

Algebra I

Length/Credits: 2 semesters/ 10 Credits

Grade: 9-10

Prerequisite(s): none

Description: This class is designed to develop the students understanding of the basic algebra concepts and prepare them for a higher level math class. The students will be expected to bring some extra materials for projects we incorporate into class. Students are measured in these areas: class or individual projects, homework, quizzes, and tests.

| Algebra I Concepts Covered | | |
|--------------------------------|---------------------------|---------------------------------|
| Introduction to Algebra | Factoring Polynomials | System of Linear Equations |
| Working with Real Numbers | Fractions | Inequalities |
| Solving Equations and Problems | Applying Fractions | Rational and Irrational Numbers |
| Polynomials | Introduction to Functions | Quadratic Functions |

Algebra II

Length/Credit: 2 semesters / 10 Credits

Prerequisite(s): Algebra I

Description: This class is designed to develop the students understanding of advanced algebra concepts and prepare them for a higher level math class. The students will be expected to bring some extra materials for projects we incorporate into class. Students are measured in these areas: class or individual projects, homework, quizzes, and tests.

| Algebra II Concepts covered | | |
|-------------------------------------|------------------------------------|---------------------------------------|
| Review basic concepts | Rational Expressions | Analytic Geometry |
| Inequalities | Irrational and Complex Numbers | Exponential and Logarithmic Functions |
| Linear Equations and Functions | Quadratic Equations and Functions | Trigonometry |
| Products and Factors of Polynomials | Variation and Polynomial Equations | |

American Government

Length / Credits: 2 semesters / 10 hrs

Grade: 12

Prerequisite(s): none

Description: This class is designed to provide seniors with a basic knowledge of our government. The class focuses specifically on what democracy means for us as American citizens. Topics covered include the following: the history of our Constitution, civil rights as seen through our amendments, the three branches of government, federalism, and local and state government. All of these topics are presented in a way to allow the students to apply them to their daily life. Discussion is essential in this class. Students are graded on tests, daily assignments, projects (hands-on), debates, and participation.

American Literature

Length / Credits: 2 semesters/10 hrs.

Grade: 11

Prerequisite(s): English I & II

Description: This course is designed to create an interest in and instill an understanding and appreciation for our own heritage and literary history and that of other cultures, through the study of literature. We will read works by authors from the main "eras" of literature, such as Puritanism, Classicism, Romanticism, and Realism, to name just a few. Grades will be based on daily assignments, individual writings, group work, quizzes over readings, and unit tests.

Anatomy and Physiology

Length/Hours: 2 semesters/10 hours.

Grades 11-12

Prerequisite(s) Biology

Description: This course is 2 semesters of Human Anatomy and Physiology. It will cover such body systems as the skeletal system, muscular system, and circulatory systems, as well as such organs as the brain, heart, eye and ear. Laboratory work will be quite extensive developing more advanced laboratory skills. Students will dissect some organs, such as the brain, heart, and eye. The class involves a lot of memorization of parts and functions. The students progress will be evaluated by scores on tests, written assignments, and performance of laboratory skills.

Applied Communications & Newspaper

Length /Credits: 2 semesters/10 hrs.

Grade (s): 9-12

Prerequisite(s): none

Description: This class is designed to develop communication skills that are essential for deciding upon a career, obtaining a job, keeping, and being prepared for promotions. Activities and exercises are patterned after situations in the working world and are designed to develop better reading, writing, speaking, and listening skills. The text is entitled English for the World of Work and is intended for secondary students who are planning to enter the world of work soon after graduation.

This class is also responsible for creating the school newspaper every month. Students are allowed to work in groups to write their articles. They are to help print, copy, and distribute the newspapers via the mailing list.

Applied Math

Length/Credits: 2 semesters/10 hours

Grades: 9-12

Prerequisite: Interest in science

TBA

Art I

Length/Hours: 2 semesters/10 hours,

Grades 9-12

Prerequisite(s) none

Description: This is a foundation course for all other art classes. The class is designed to teach the four components of art education: production, criticism, history, and aesthetics. A wide variety of media will be explored in studio productions to give the student introductory experience in ceramics, collage, design, sculpture, fiber arts, painting, printmaking and drawing. Students will take notes, read selected materials, observe demonstrations and films and do numerous studio activities. The students' projects and performance will be measured in three specific areas: the acquisition, application and individualistic use of the specific skills to be learned, test scores and classroom cooperation and work habits. Cost: Very minimal, maybe occasional materials.

Art II

Sculpture and Ceramics Length/Hours: 2 semesters/10 hours

Grades 10-12

Prerequisite(s) Art I

Description: This class is an extension of the introduction to sculpture and ceramics received in Art I. Students will learn the history and techniques of pottery making. Students will take lecture notes, do required reading and observe demonstrations and films. Studio requirements will include hand build construction (coil, slab and pinch) as well as wheel thrown techniques, glazing techniques and loading and operating the kiln. Relief and sculpture in the round will be done in air dry clay and plaster. Evaluation of students work will be made in three areas: the acquisition, application and individualistic use of the specific skill learned, test scores, and classroom cooperation and work habits.

Art III

Painting Length/Hours: 2 semesters/10 hours

Grades 10-12

Prerequisite(s) Art I

Description: This class is an extension of the introduction to drawing and painting in Art I. student will work on sharpening their skills and drawing with various media. We will focus on drawing the human face and body as well as classroom still lifes. Students will use their previous knowledge and color very end the elements and principles of art in their drawing and painting. Various styles of painting and three media, oil acrylic and watercolor will be completed by a student. Evaluations of students work will be made in three areas: the acquisition, application and individualistic use of the specific skill learned, test scores, and classroom cooperation in work habits.

Art IV

Length/Hours: 1 or 2 semesters / 5 or 10 hours

Grade 12

Prerequisites art 1,2, & 3

Description: This class is seldom offered because of the prerequisites. Students who take this class would exhibit exceptional qualities and interest in art. Studio activities and readings would be formulated to meet the needs and interests of the individual. Exploration of more advanced techniques and media not other wise taught would be done. An example of this would be studio work with the air brush. Evaluations of students' work will be made in three areas: the acquisition, application and individualistic use of the specific skill learned, test scores, and classroom cooperation and work habits.

Band

Length/credits: 2 semesters/10 hours

Grades 9 through 12 :

Prerequisite: Band experience.

Description: This class is designed to develop the students' skills and understanding of band literature, and techniques. These areas will include sight reading, ear training, melody, harmony, rhythm instrumental texture, performance, music history and appreciation. Students are required to participate in playing exercises, scales and literature. Student performance and progress are measured through acquisition, application and individualistic use of skills learned, participation, practice discipline, individual spot checks and performances. COST: Occasional instrumental repairs of their own instruments.

Biology

Length/Hours: 2 sem./10 hours

Grades 10-12

Prerequisite(s) none.

Description: The student will complete units in the nature of life, the continuity of life, microbiology, multi-cellular plants, invertebrates, vertebrates and the ecological relationships of living organisms. The student will do assigned readings, perform laboratory experiments, written exercises and reports, discussion and tests on the above mentioned outline. The performance of the student will be measured by laboratory skills demonstrated and scores in written assignments and tests.

Business and Personal Law

Length/Credits: 2 sem./10 hrs.

Grades 10-12

Prerequisite(s): None

Description: Business Law is the study of many concerns that students will meet in the near future dealing with laws, contracts, credit, insurance, commercial paper, working for others and income taxes. The information is presented in a manner that combines introduction of new concepts and how they may affect the individual. Grades will be based on study guides, business terms, applying law to everyday life questions, solving case problems and chapter and unit tests and a course portfolio.

Business Economics

Length/Credits: 2 sem./10 hrs.

Grades 10-12

Prerequisite(s): None

TBA

Business Math (not a math class)

Length/Credits: 2 sem./10 hrs.

Grades 12

Prerequisite(s): None

Personal Finance and Business Math will alternate each year. The applications that we will be using are very much business oriented and are very practical and useful for any student as a potential college student, employee, and consumer. I think the business math class is one of the best classes they can take. I think it's especially useful for seniors who will be making their own decisions in just a matter of months. It will help them negotiate in the world as far as calculating their own finances.

C.A.D: Computer Aided Drawing

Length:/Credits 2 semesters/10 hours

Grade 9 - 10 Prerequisite(s): None

Description: The Computer Aided Drawing course will cover the basic components of technical and architectural drawing. The first semester will cover the use of the Cadkey 4-Light Program and the duplication of technical drawings from the three view perspective. The second semester will involve architectural drawing. During this semester the student will be introduced to the plans required in building a house, and develop their own set of plans required for building their own home.

Careers I

Length:/Credits 1 semester/5 hours

Grade 10

Prerequisite(s): None

Description: This course will help students appraise several factors that determine their ability to select a career / occupational choice in a methodical manner. Students will analyze personal attributes that relate to an occupation. Students will analyze occupational requirements and occupational opportunities. Students will obtain suitable exploratory experiences through occupational tryouts. The basic premise upon which the "Careers" Orientation is that unless work satisfaction is derived, an individual's self-fulfillment is not achieved, and consequently, a person's true happiness is not secured. Work satisfaction depends on an individual's ability to determine an occupational choice consistent with the needs of his or her personality, interests, aspirations, and physical resources applicable to the world of work.

Careers II

Length:/Credits 1 semester/10 hours

Grade 12

Prerequisite(s): None

Students in senior Careers Class develop their own resumes and portfolios. Students begin by identifying their strengths and interests. The students review their school, work and life experiences and collect documentation that supports the review. Students use one of many computer programs available to review the steps to developing a resume. A dictionary of occupational titles (DOT) is built into the programs. This is very useful when identifying specific skills needed for the job. In some cases, students match the skills of the job to the skills they have acquired and demonstrated. **This is a significant part of the course. Often students are unable to recall specific skills they have acquired or demonstrated as part of a major achievement.** The resume process increases self awareness by requiring students to identify learned skills.

Chemistry

Length/credits: 2 semesters/10 hrs

Grade 11-12

Prerequisites: Earth Science & Physical Science Algebra & Geometry

Description: Topics covered in the course are: matter and energy; heat and temperature; structure of the atom; quantum numbers; electron configuration; periodic law; chemical bonding; chemical formulas and names; chemical equations; types of chemical reactions; activity series; stoichiometry; kinetic theory of matter; gases; ideal gas law; diffusion and effusion; liquids; solids; changes of state; solutions; concentration of solutions; acids and bases; titrations and pH; reactions energy; reaction kinetics; chemical equilibrium; oxidation-reduction reactions; carbon and hydrocarbons; substituted hydrocarbons; descriptive chemistry (alkalis, alkaline earths, transitions, metalloids, sulfur, and halogens); and nuclear reactions.

In administering the course, an attempt is made to balance theory and practical applications. The course meets most of the requirements of a college preparatory program.

A large number of laboratories are conducted. Most topics of the course are accompanied by the use of video disks, video tapes, and demonstrations.

Chorus

Length/credits: 2 semesters/10 hrs.

Grades: 9-12

Prerequisite: None

Description: This class is designed to develop the students' skills and understanding of vocal literature and techniques. These areas will include sight singing, ear training, melody, harmony, rhythm, vocal texture, performance, music history and appreciation. Students are required to participate in singing vocalists, exercises and literature. Student performance and progress are measured through acquisition, application and individualistic use of skills learned, participation, practice discipline, individual spot checks and performances. COST: None

Civics

Length/credits: 1 semester/5 credits

Grades 9th-12th

Prerequisite(s): none

Description: This class is designed to provide the student an understanding of our nation's system of government, help the student learn and practice qualities of good citizenship; help the student develop skills needed to participate in our democratic society. Grades will be based on quizzes, tests, projects and classroom cooperation.

Clothing and Fashion Design

Length/Credits: 1 sem/5hrs.

Grades: 9 – 12

Prerequisites: None

Description: This course explores fashion and fashion merchandising both from a historical and current trend perspective. Dressing for different occasions, cultures, and personality type, evaluating what we have and our needs, purchasing, and marketing. Clothing care and construction will also be covered.

Comprehensive Family and Consumer Science

Length/Credits: 2 sem/10 hrs.

Grades: 9 – 12

Prerequisites: None

Description: This class is organized to give students an in-depth look at the family and the functions it performs. It is designed to help students develop skills necessary for a well-rounded life both now and in the future. Topics covered include: Food Preparation, Nutrition, Consumer Skills, Clothing, Housing, Child Development, and Family Life Issues.

Computer Application

Length/Credits: 2 semesters /10 hrs.

Grades 10

Prerequisite(s): Keyboarding

Description: This course is designed to develop students understanding and application of one type of computer software (MircoSoft Office 2000) making it easier for them to adapt to other types of software they may come in contact with. MicroSoft Office is an integrated software package, which means that it combines five popular computer applications: word processing (MS Word), database management (access), spreadsheet (Excel), publishing (Publisher) and Presentations (Power Point). Grades will be based on daily activities, chapter reviews through the use of applications and chapter and unit tests.

Computer Graphics

Length/Hours: 2 sem./10 hours

Grade 9-12

Prerequisite(s) none

Description: Discourse can only be offered to four students (2 students per computer). This is a class that uses the computer as a media for art work. We use the Dell computer and the Corel Draw 7.0 program. The student will learn the program by demonstrations, reading and activities assigned by the teacher. These activities will include drawing, painting, and photo-manipulation. The class will work on skills in computer layout and design with activities such as designing advertisements and a "Banner County School brochure". Evaluation of the students work will be acquisition, application and individualistic use of the skills learned, scores from the test and final projects.

Computer Language

Length/Credits: 2 semesters/10 hours

Grades: 9-12

Prerequisite: Interest in science

TBA

Consumer Education

Length/Credits: 1 sem/5 hrs.

Grades: 9 - 12

Prerequisites: None

Description: The major purpose of this course is to help students become informed consumers. The following concepts and skills will be taught: how the economy functions, making wise purchases, managing money, evaluating sales and advertising practices, and how to guard against fraudulent or deceptive sales practices.

Consumer Math

Length/Credits: 2 semesters/10 hrs

Grade 9-12

Prerequisite(s): 8th grade math

Description: Topics covered in the course are: buyer preparedness (calculating sales tax, ordering from a catalog, etc.); measurement of length, weight, area, volume; automobile related expenses and skills; travel related expenses and skills (airline tickets, time zones, bus schedules, etc.); stocks and bonds; graphs and graphing; consumer credit expenses and skills; use of credit cards; job related expenses and skills; income taxes and filing; budgeting expenses and skills; banking expenses and skills; and independent living expenses and skills.

This course applies eighth grade level mathematics to the solution of common problems involved in day to day living. Problems such as banking interest, area to be painted, tax calculation and filing, car expenses, and so on.

Driver Education

Prerequisites: Must be 14 years of age or older

Description: This course is offered each year during the summer. The classroom phase addresses all aspects of safe driving. Students will log more than 25 clock hours of classroom instruction and six sessions of actual practice driving which includes one hour for testing. The *classroom phase* will begin June 3rd at 8:00 AM. Instruction will take place from 8:00 AM to 1:00 PM (5 hours each day). Students will complete the classroom phase June 7th. Students will meet in the Business room at the high school. The cost is \$120.00 which will be refunded to students of Banner County Schools if the student passes the class with at least a C average. The *Driving Phase* is scheduled to begin June 10, 2002. Each student will be expected to participate in 6 driving sessions. Each session will last 3 hours. The last session will require a final driving examination. The student must pass the driving examination before receiving the NEBRASKA

DEPARTMENT OF MOTOR VEHICLES PROVISIONAL OPERATOR'S PERMIT WRITTEN AND DRIVE TEST WAIVER. The class will be divided into groups of three. During each session of the driving phase the student will drive 1 hour, actively observe 1 hour and work on an assignment 1 hour. Every effort will be made to accommodate the scheduling needs of the student. All students will have completed the course by June 28, 2002. Students MUST attend ALL Class Sessions.

| | | |
|-----------|---------------------------------------|--|
| Session 1 | Drive Harrisburg | seatbelt, starts, stops, turns, signals, intersections, acceleration, breaking, etc. |
| Session 2 | State Highway and County Road Driving | tracking, speed control, passing, emergency stops, turnabouts, visual lead, passing, etc. |
| Session 3 | Residential Driving | Intersections (uncontrolled), speed control, lane position etc. |
| Session 4 | City Driving | Intersections (controlled – uncontrolled), turns, traffic control devises, turning lanes, parallel parking, angle parking etc. |
| Session 5 | Interstate Driving | Entering and exiting the interstate |
| Session 6 | Test Route | will assess 21 maneuvers that contain more than 100 elements |

Driver Education ... A definition: *Learning experiences provided for the purpose of helping students to become good traffic citizens and to operate motor vehicles safely and efficiently.* Instruction centers on development of driving skills; traffic laws and ordinances; the motor vehicle; traffic collisions; and other relevant learning experiences and information such as alcohol, drugs, other harmful substances and driving; characteristics of drivers; Banner County Schools is a DMV Approved Driver Safety School and instruction is being provided by a Nebraska Endorsed Driver Education Instructor.

English I

Length/Credits: 2 sem/10 hrs.

Grade: 9

Prerequisite: Language Arts

Description: This is a foundation course to all other disciplines because a knowledge of English is basic to all other areas. This class is required because all human relationships depend upon both oral and written communication. The focus of this class is to strengthen and improve communication skills by teaching the basic skills of: syntax, usage, vocabulary, mechanics, spelling, and the study needed to present ideas in the most effective manner. The ability to write clearly, coherently, and creatively will also be stressed. Grades will be based on daily assignments, individual writings, group assignments, and chapter and unit tests.

English II

Length/Credits: 2 semesters/10 hrs.

Grade: 10

Prerequisite: English I

Description: Since all knowledge builds and expands on previous knowledge, an effective way of communication is vital. English II will build on the skills that are learned and perfected in English I. Whereas English I is focused more on the use of correct syntax and mechanics, English II will have more of a focus on the skills of writing and speaking effectively. There will also be a big focus on the development of an enjoyment for books and reading. Grades will be based on daily assignments, individual writings, and quizzes and exams over literature read/studied.

English Literature

Length/Credits: 2 semesters/10 hrs.

Grade(s): 12

Prerequisite(s): English I, II and American Literature

Description: This course is designed to create an interest in and instill an understanding and appreciation for our own heritage and literary history and that of other cultures, through the study of literature. We will read works by authors from the main "eras" of literature, such as the Medieval Period, the Elizabethan Age, and the Restoration, to name just a few. During second semester the students will be required to do the research project of the choice. Grades will be based on daily assignments, individual writings, group work, quizzes over readings, and unit tests, and their research project.

Environmental Science

Length/Credits: 2 semesters/10 hrs.

Grade(s): 11 & 12

Prerequisite: Biology I

Description: The basis of this course is how humans interact with every other living species, and how their survival depends upon the way we conduct our activities around the world. It deals with environmental problems such as air and water pollution, population growth, loss of biodiversity, use of energy, food availability, etc. The course is graded on written assignments, projects and labs, and tests.

Family Health

Length/Credits: 1 sem/5 hrs.

Grade: 9 – 12

Prerequisites: None

Description: This course is designed to help students understand the importance of making healthy choices both for themselves and their families. The study of social health, human development and the aging process, nutrition and fitness, preventing disease through environmental and community health, substance abuse, health care, and safety and first aid are all covered in the semester course.

Foods and Nutrition

Length/Credits: 1 sem/5 hrs.

Grades: 9 – 12

Prerequisites: None

Description: Foods and Nutrition covers all aspects of food preparation skills and nutrition needs of all ages. Specific areas of study are: food choices, nutrient needs, guidelines for good nutrition, planning daily food choices, food and fitness, special topics in nutrition, workspace design, tools and techniques, consumer decisions, foods for meals and snacks, foods of the world, special techniques, and careers in food and nutrition

Food Science

Length/Credits: 2 semesters/ 10 hrs.

Grades: 11 – 12

Prerequisite: None

Description: Food Science is a course that studies foods and nutrition from chemical, biological, and family and consumer science methods. Experiments are conducted that develop laboratory, writing, problem-solving, and reasoning skills. Information will be covered in the following areas: food guide pyramid, periodic table, digestion, hazardous chemicals, and careers in food science.

General Math

Length/Credits: 2 semesters/ 10 hrs.

Grade: 9

Prerequisite: eighth-grade math

Description:

| | | | |
|--|-------------|----------------|----------|
| Strengthen all arithmetic concepts: Whole numbers, fractions, decimals | | | |
| Addition | Subtraction | Multiplication | Division |
| Percents | | | |
| Word problems dealing with everyday situations | | | |

Geometry

Length/Credits: 2 semesters/ 10 hrs

Grades: 10 – 12

Prerequisite(s): Algebra I

Description: This class is designed to develop the students understanding of the following concepts integrate them into real life situation. The students will be expected to bring some extra materials for projects we incorporate into class. Students are measured in these areas: class or individual projects, homework, quizzes, and tests.

| Geometry Concepts Covered: | | | |
|----------------------------|-----------------------------------|--------------|---------------------|
| Inductive Reasoning | Geometric Constructions | Polygons | Congruence |
| Circles | Transformations and Tessellations | Area | Pythagorean Theorem |
| Volume | Similarity | Trigonometry | |

Mythology

Students will study their individual stories and compare the different Gods from different cultures. The text is called mythology-timeless tales of Gods and heroes by Edith Hamilton. Other books to be read are “The Odyssey” or “Oedipus Rex”.

Health Topics

Length/Credits: 2 sem/10 hrs.

Grades: Junior or Senior

Prerequisites: Sophomore Health

Description: This class is designed to meet the specific needs of the students in the class. Topics are chosen by societal issues, personal issues, current trends in health and health care, and needs for health care and insurance. The class is not based on a text book/lecture format but discussion and research.

Housing and Interior Design

Length/Credits: 1 sem/5 hrs.

Grades: 9 – 12

Prerequisites: None

Description: This course is designed to prepare you to make wise housing choices related to both renting and buying. It also covers information related to the different types of housing available for both renting and buying. Housing styles are identified and decorating techniques are covered. Purchasing furnishings and sources of furnishings are investigated.

Independent Science Studies

Length/Credits: 2 semesters/5 hours

Grades: 9-12

Prerequisite: Interest in science

Description: This course involves a variety of projects and topics relating to science. The curriculum is chosen mostly the students in the course, at the discretion of the teacher. One research paper of the students' choice is required each semester, but the rest of the year is spent on various projects that the students convey an interest in. Some projects are group projects and some are done individually. Some past projects and topics have included rocketry, building bridges and catapults, space exploration, human genetics, and mousetrap cars. The course is graded on several written assignments, participation in individual, group, and class projects, and the 2 research papers.

Introduction to Business

Length/Credits: 2 semesters/5 hours

Grades: 10-12

Prerequisite: none

Journalism

Length/Credits: two semesters/10 hours

Grade(s): 9-12

Prerequisite: None

Description: Although it is not a prerequisite, some knowledge of basic computer skills is required for this course. This course is designed to develop and improve writing skills. This course is more of an "individual-type" course. Students meet at the beginning of each month and discuss ideas for that particular month's edition. Each student signs up for an individual article, and then does their own research and recording of information. The sponsor (teacher) will then proof-

read each story. Each student also does the layout for their own story. All students help to assemble and distribute each edition of the paper. Grades are based on the quality of work (written and layout), and the meeting of pre-set deadlines.

Life Skills/Family Living

Length/Credits: 1 or 2 sem/5 or 10 hrs.

Grades: 11 – 12

Prerequisites: None

Description: Life Skills includes those things necessary to live successfully. It focuses on values, goals, and decision making skills related to living. Consumer topics are included as are some work-related and people skills. Areas covered are: foods and nutrition, clothing, housing, consumer education, relationships, marriage, parenting, and the family.

Nature Science

Length/Credits: 2 semesters/10 hours

Grades: 11

Prerequisite: Interest in science

Medical Terminology

Length/Credits: 2 semesters/10 hours

Dual Credit: College / High School (Grades: 12)

Prerequisite: Anatomy Physiology/ Interest in science

Description: **Distance Learning** TBA

Music as Recreation

Length/Credits: 2 semesters/10 hours

Grades: 912

Prerequisite: none

Performing on percussion instruments

Drum circles-drum jamming

Basic guitar cords and the autoharp

Creating blues songs

Basic notion/theory

Analyzing past and current music selections

Appreciating and analyzing “musicals”

Identify classical music seems

How to survive attending the Symphony

Parenting /Child Development

Length/Credits: 1sem/5 hrs.

Grades: 9 – 12

Prerequisite: None

Description: This course focuses on the decisions related to parenthood. It covers decisions such as when to have children and health practices to follow both before and after having children. This course helps students to recognize children's stages of development and to realize how parents' roles change as their children grow. It also promotes interactions that are enjoyable, supportive, encouraging, and rewarding for both parents and children.

Personal Finance

Length/Credits: 2sem/10 hrs.

Grades: 11 – 12

Prerequisite: None

TBA

Photography

Length/Credits: 1 semester/5 hours

Grade: 10-12

Prerequisite: none

This class introduces the student to the beginning basics in photography. We will focus on the use of several types of cameras and explore the pros and cons of each. These cameras would include the SLR 35mm camera, a digital camera and disposable point and shoot camera. The students **may** be asked to provide a SLR camera or disposable camera for their own use. Students learn to effectively compose their photos using the rule of thirds, horizon lines, balance, grouping, leading lines, framing, selective focus, and linking techniques. Students learn to import digital camera photographs as well as photo images using scanners. Photo journalism assignments include; candid shots, group shots and action shots. The students will be expected to use their photography in a computer design project such as a magazine cover or calendar.

Physical Education

Length/credits: 2 semesters/10 hrs

Grade 09 - 10

Prerequisite(s): none

Description: Objective: Of the students will learn the rules and regulations of many different games, as a group. They will be tested on their knowledge of the rules and regulations of the game, before their adopt the game and actual playing.

| Teaching Aids | | | |
|-----------------------------|------------|------------------|---------------------------------|
| handouts | videos | Written articles | Participation of the game |
| quizzes | test | Rule books | When applicable: tournaments |
| Possible games being taught | | | |
| volleyball | tennis | badminton | track |
| football | Ping pong | Weight lifting | Pickle ball |
| basketball | Wally Ball | archery | golf |

Physics

Length/credits: 2 semesters/10 hrs

Grade 11 – 12

Prerequisites: Earth Science & Physical Science, Algebra & Geometry

Description: Topics covered in the course are: velocity and acceleration; laws of motion; gravitation; concurrent and parallel forces; periodic motion; momentum; work, machines, and power; phases of matter; thermal expansion; heat exchange; change of phase; heat engines; waves; sound; light and optics; electrostatics; direct-current circuits; magnetism; alternating current circuits; electronic devices; nuclear reactions; and high energy physics.

In administering the course, an attempt is made to balance theory and practical applications. A rigorous treatment of mechanics is presented. The course meets most of the requirements of a college preparatory program.

A large number of laboratories are conducted. Most topics of the course are accompanied by the use of video disks, video tapes, and demonstrations.

Physical Science

Length/credits: 2 semesters/10 hrs

Grade 9

Prerequisites: 8th grade math

Description: Topics covered in the course are: the nature of science; science methods; SI units; energy; velocity; acceleration; momentum; thermal energy; machines; solids, liquids, and gases; classification of matter; atomic structure; the periodic table; chemical bonds; elements, compounds, and chemical reaction; acids, bases, and salts; waves; sound; light and optics; electricity; magnetism; and nuclear reactions.

A large number of laboratories are conducted. The students are graded on completion of daily assignments, laboratory activities, and tests. This course serves as an introduction to the courses of chemistry and physics.

Pre-Algebra

Length/credits: 2 semesters/10 hours

Grade: 9-12

Prerequisite: eighth-grade math

Description: Class for students not prepared for algebra 1 at this time.

1. Review arithmetic concepts
 - a. Addition, subtraction, Multiplication, division (fractions, decimals etc.)
2. All concepts necessary for advancing to Algebra 1.

Psychology

Length/credits: 2 semesters/10 hrs.

Grade: 10-12

Prerequisite(s): none

Description: This class is designed to give students a basic understanding of what Psychology is all about. It touches only the surfaces of the various facets of modern day psychology. Some of the general topics include: the history of Psychology, states of consciousness, society and the individual, theories on thinking and learning, self and personality, mental disorders, and the cycle of life. Each area is addressed in a "how does this apply to me?" way. Discussion is a major emphasis in this class as well. Students are graded on participation in class, daily assignments, tests, and projects (there is a lot of studies,, research, observation, and surveys).

Social Studies

Length/Credits: 2 sem/10 hrs

Grades: 9-12

Prerequisites: None

Description: This class has two components, Civics and World Geography.

1. Civics: The coursework is designed to provide the student an understanding of our nation's system of government, help the student learn and practice qualities of good citizenship; help the student develop skills needed to participate in our democratic society.
2. World Geography: The coursework is designed to develop the students' understanding of the five themes of geography: location, place, interaction, movement and regions. These themes will provide the focus for the study of the world.

The students' grades will be based on quizzes, tests, projects and classroom cooperation.

Sociology 1st Sem. / Psychology 2nd Sem.

Length/Credits: 2 sem/10 hrs.

Grades: 11-12

Prerequisites: None

Description: **Distance Learning** TBA

Spanish I

Length/Credits: 2 sem/10 hrs.

Grades: 9-12

Prerequisites: None

Description: This course uses the text book, "NUEVOS AMIGOS" by HBJ. It is designed to develop four basic skills: listening, speaking, reading and writing of the Spanish language. Emphasis is placed on vocabulary and the present tense of common verbs used in familiar settings.

Speech

Length/Credits: 1 semester/5 hrs.

Grades: 11-12

Prerequisites: none

Description: The ability to speak confidently and convincingly in public is an asset to everyone who wants to take an active role in his or her classroom, workplace, and community. This course is designed to guide students in developing the knowledge and skills that will enable them to become effective public speakers. It offers an approach to managing both the challenges and the choices that have confronted public speakers through time. Students will be required to compose and perform one of each of the three main types of speeches: Special Occasion, Informative and Persuasive.

Sports Nutrition

Length/Credits: 1 sem/5 hrs.

Grades: 9 – 12

Prerequisite: None

Description: This course studies the nutritional needs of athletes and the general public related to physical fitness. Areas of study are: dietary habits, nutritional needs according to age and activity levels, dieting and diets, media and nutrition information reporting, body composition and energy balance, governmental dietary guidelines, nutritional labeling, shopping techniques and meal planning.

United States History

Length/credits: 2 semesters/10 hrs

Grade: 11 Prerequisite(s): none

Description: (1860-PRESENT) This class is designed to develop the students' understanding of the events and people that have shaped our country from 1860 to the present. The Civil War, the Wild West, the Progressive Era, the Great Depression, World War II, the "Nifty" 50s, and numerous other periods are covered throughout the year. Students are graded on participation in class, daily assignments, tests, projects (there is a lot of hands-on work), a book report, and current event articles.

Welding

Length/credits: 2 semesters/10 hrs

Grades 9 – 12

Prerequisite(s): none

Description: The students will learn the basic skills required to operate safely and correctly the arc welder, wire feed welder, and the oxy-acetylene welding and cutting equipment. The first phase of the course will be to learn the safe and proper use of the welding equipment - requiring the passing of a comprehensive test at a minimum score of 85%. The second part of the course will be to complete a variety of sample welds using the three different types of welding equipment described above. The final part of the course will be to complete a welding project(s).

Woods I

Length/credits: 2 semesters/10 hrs

Grades 9 – 10

Prerequisite(s): none

Description: Woods I will cover the use of all power and hand tools in the lab. The student will be able to operate the equipment in a safe and proper manner through a practical test, before starting a wood-working project. When the student has demonstrated the safe and correct use of the power equipment, a set of plans will be completed with a sketch of their project and an estimated cost. The student will then complete a wood-working project that meets his or her skill level.

Woods II-IV

Length/credits: 2 semesters/10 hrs

Grades 10 – 12

Prerequisite(s): Each prior Woods course

Description: In Woods II-IV the student will complete a more complex project from plans they develop.

Worked-Based Learning (WBL)

Length/Credits: 1 to 3 semesters/5 to 15 hrs.

Grades: 9-12

Prerequisites: None

Description: The Work-Based Learning (WBL) course is one of three learning activities that addresses the overall goal of the School-To-Work (STW) system. The overall goal is to help young people progress smoothly to employment by making the connection between one's education and career clear. Work-Based Learning offers each student:

- a planned and supervised program of job training and work experiences (paid or the equivalent in non-paid experience) related to the pre-employment and employment skills required of a portable skills certificate, that are coordinated and directly tied to School-based Learning (SBL) including a participant's "career major".
- a process that assures employers will be required to sign training agreements and plans with education, parents/guardians of student;
- planned and supervised program of workplace mentoring;
- instruction in general workplace competencies required of a portable skills certificate to the extent feasible that is consistent with National Skill Standards, including instruction and activities related to developing positive work attitudes, and employability and participative skills;
- a system of labor market analysis for targeting of industry sectors or occupational clusters with broad instruction in all aspects of the industry; and
- a process that assures that young women are ensured opportunities to participate in conformance with gender equity provisions.

World Geography

Length/credits: 2 semesters/10 hrs

Grades 9 through 12

Prerequisite(s): None

Description: The class is designed to develop the students' understanding of the five themes of geography: location, place, interaction, movement and regions. These themes will provide the focus for the study of the world. The students' grades will be based on quizzes, tests, projects and classroom cooperation.

World History Length/credits: 2 semesters/10 hours

Grade: 10 Prerequisite(s): none

This class is designed to develop the students' understanding of the events and people that have helped shape the world as we know it today. This class addresses multicultural differences by looking how various cultures around the globe function in their environment. Furthermore, this class is aimed at explaining some of the reasons why things have developed into what they are today. Students are graded on tests, daily assignments, projects (hands-on), current events, and a book report.

World of Work

Length/Credits: 1 or 2 sem/5 or 10 hrs.

Grades: 11 & 12

Prerequisites: None

Description: This course is designed to give students skills needed to make a smooth transition from the school classroom to meaningful job experience. It then will cover information necessary to move from part-time to full-time work experience. The skill necessary to successful employment will be covered and they include the following: effective communication, math problems, role of computers, time management and leadership skills.

Yearbook

Length/Credits: 1 semester/5 hrs.

Grade(s): 9-12

Prerequisite(s): none

Description: The goal of this class is to produce a quality school yearbook for the students and patrons of the district. Students will be introduced to yearbook design, budgeting, photography and the operation of the computer program PageMaker. Student achievement will be measured in these areas: class participation and productivity.