

BRIEF DESCRIPTIONS OF CLASSES FOR VALENTINE HIGH SCHOOL SPRING OF 2018

VHS GRADUATION REQUIREMENTS

The Board of Education for Cherry County District #6 has established the following academic requirements for graduation. All students will need to accumulate 260 hours in order to graduate. Of these hours students are required to accumulate 40 hours in English, 30 hours in Social Studies, 30 hours in Math (required during your freshman, sophomore and junior years), 30 hours in Science, 5 hours of Careers, 5 hours of Information Technology, & 10 hours in Physical Education.

Students planning to attend college will need to prepare themselves by taking further core courses. For example the University of Nebraska-Lincoln requires 40 hours of English, 40 hours of Math (Algebra 1 and above), 30 hours of Science, 30 hours of Social Studies, and 20 hours of a Foreign Language for assured admission. These are among the toughest entrance requirements in the nation. Generally if you have met the UNL requirements, you will meet any college requirements in the country.

As you look through this booklet you need to look ahead to where you want to be when you graduate and what you plan to do.

UNL, UNK, UNO, and some other colleges require 2 years of Foreign Language for admission.

Electives can be chosen from the following curriculum areas: Music, Agriculture, Industrial Technology, Business & Information Technology, Foreign Language, Fine Arts, Science, Social Studies, English, Math, Physical Education.

LANGUAGE ARTS

ENGLISH 1

GRADE LEVEL: ALL

PRE-REQUISITE: NONE

This course will consist of improving vocabulary, spelling, reading comprehension, composition writing techniques, and basic literary terms and forms. Students will also have a basic speech unit. All Freshmen are required to take and pass this class for graduation.

ENGLISH 2

GRADE LEVEL: 10, 11, 12

PRE-REQUISITE: ENGLISH 1

This course is designed to examine different writing styles of various authors to recognize the influence of those styles on the material written. In addition, students will study vocabulary, work to improve composition and writing skills. Students will also have a basic speech unit. All Sophomores are required to take and pass this class for graduation.

ADVANCED ENGLISH 2

GRADE LEVEL: 10

PRE-REQUISITE: ENGLISH 1 & RECOMMENDATION PROCESS

This accelerated course is designed to enhance learning through the use of extensive reading, an emphasis on writing and class discussions. Students will focus on detailed studies of various authors in order to determine how the times shaped their work. Also, students will participate in research projects, a speech unit, vocabulary enhancement, and portfolio writing. Students should expect additional activities and extra reading and writing. This class does count towards the English graduation requirements and is for students planning on attending a four-year college or university.

AMERICAN LITERATURE

GRADE LEVEL: 11, 12

PRE-REQUISITE: ENGLISH 1 & 2, RECOMMEND C AVERAGE IN 9,10 ENGLISH

This course will deal with American Literature, and the various writing styles of American authors. Students will become better developed in vocabulary, spelling, oral, and writing skills. This class does count towards English graduation requirements. This class is for students planning on attending a 4 year college or university.

BRITISH LITERATURE

GRADE LEVEL: 11, 12

PRE-REQUISITE: ENGLISH 1 & 2, ADV. ENGLISH 2 IF A JUNIOR

This course will deal with English for college bound students. It will consist of advanced vocabulary work, detailed study of classic pieces of English literature, portfolio writing, and research activities. This class does count towards English graduation requirements. This class is for students planning on attending a 4 year college or university.

COLLEGE COMPOSITION

GRADE LEVEL: 12

PRE-REQUISITE: ENGLISH 1,2, AMERICAN OR BRITISH LITERATURE

This course is intended as an introduction to expository composition, which is the basis of written

documents for college students. The emphasis will be on the process of writing for college courses especially in establishing genre, thesis, purpose and audience. The course will emphasize the development of writing skills for college and life-long applications. Students will be expected to write every day in the writing workshop format with the intent of improving personal writing skills, creative skills and writing product. Students taking this course may choose to receive dual credit through Mid-Plains Community College. This class does count towards English graduation requirements. This class is for students planning on attending a 4 year college or university.

APPLIED COMMUNICATIONS I

GRADE LEVEL: 11

PRE-REQUISITE: ENGLISH 1 & 2

This course will help students understand the communication processes that occur in the workplace. Students will study various communication situations. Students will also learn and practice communication skills necessary to succeed in these situations. This course implements reading, writing, spelling, and vocabulary activities, as well as class discussions, to help students learn these skills. This class does count towards English graduation requirements, and is for students planning on attending a community college or trade school.

APPLIED COMMUNICATIONS II

GRADE LEVEL: 12

PRE-REQUISITE: ENGLISH 1,2, American/British Lit or Applied Communications I

This course is designed to help the student acquire knowledge of everyday-workday English. Students will increase their skills of communication by writing, reading, spelling, discussion, vocabulary work, and role-playing. Students will also gain knowledge of careers, problem solving, technical writing, reading and communication on the job. This class does count towards English graduation requirements, and is for students planning on attending a community college or trade school. Students taking this course may choose to receive dual credit through Mid-Plains Community College.

JOURNALISM

GRADE LEVEL: 10, 11, 12

PRE-REQUISITE: ENGLISH 1 AND INSTRUCTOR'S PERMISSION

This course consists of the planning and construction of the yearbook. Students should be willing to learn some photography; all work cannot be done during school time. This class will also be responsible for articles in the school paper, if one is published. This class is an elective.

BROADCASTING & SOCIAL MEDIA

GRADE LEVEL: 10, 11, 12

Prerequisites: "C" in current English class

This course is a media and broadcasting course designed to provide students with a ground work in various forms of media, including writing, videography, broadcasting, public speaking, or social media platforms. This course will have three focuses. The first is to develop the skills necessary to run a news broadcast and will cover topics such as interviewing, videography, photography, and familiarity with U.S. and world news. Second, understand the legality for broadcasting, journalism, and the use of social media. Last, to use editing software to create creative videos with a variety of topics, including a PSA and short film. Students will have the opportunity to present their work to the student body via TV broadcast.

THEATER AND SPEECH COMMUNICATIONS

GRADE LEVEL: 10, 11, 12

This class will cover three areas over the course of the year. The first trimester will focus on theater and action, with the focus on character development and play production. Other topics that students will be offered to study further into include history of the theater, set and costume design, and approaches to acting. In the second trimester, students will focus on speech communication, including writing platform speeches, cutting literature for oral interpretation, and preparing and delivering impromptu speeches. The third trimester will allow for production of short films or documentaries, including scriptwriting and video production.

SOCIAL STUDIES

WORLD GEOGRAPHY

GRADE LEVEL: 9

PRE-REQUISITE: NONE

This is a full year course which will include the study of countries and people around the world. Major areas of study are Latin America, Middle East, SE Asia, Africa, China, and the new Russia. Tests will vary with multiple choice, matching, true and false, and short answer with map location. This class does count towards Social Studies requirements.

WORLD HISTORY

GRADE LEVEL: 10, 11, 12

PRE-REQUISITE: NONE

World History is a basic overview of the history of the world from prehistoric times to the present age. There is special emphasis on Europe's history. The students should be able to relate historic events to their lives today. The class work consists of lectures, written assignments, quizzes, and tests. This class does count towards Social Studies requirements.

AMERICAN HISTORY

GRADE LEVEL: 11

PRE-REQUISITE: NONE

A year course covering the major areas of America, past and present. Beginning with the Colonial and Revolutionary periods, Growth and Expansion, conflicts, wars, struggles of laborers and immigrants, becoming a world power, and problems of the mid and late 20th century. Emphasis on the period from 1865 to the present. All Juniors are required to take and pass this class for graduation. This class does count towards Social Studies requirements.

AMERICAN GOVERNMENT

GRADE LEVEL: 12

PRE-REQUISITE: AMERICAN HISTORY

A year long course covering the structure and ideas behind our National, State, and Local Governments. Specific topics covered are the Constitution, Presidency, Congress, Courts, Politics, Economics, and other world governments. All Seniors are required to take and pass this class for graduation. This class does count towards Social Studies requirements.

SOCIOLOGY

GRADE LEVEL: 10, 11, 12 (Priority will be given to 12th and 11th grade first.)

PRE-REQUISITE: NONE

Sociology deals with the investigation and analysis of human relationships, and seeks explanations of their causes and consequences. Topics such as understanding cultures, how society is organized, social institutions, collective behavior, and social problems will be covered. This class does count towards Social Studies requirements.

GLOBAL AFFAIRS

GRADE LEVEL: 11, 12

This is a year long advanced history class. While keeping up with current events, we will also cover issues such as the history of the Cold War, the Vietnam and Persian Gulf conflicts, the Federal Budget, the economy, immigration, human rights, defense, and global environment. We will cover the U.S. relations with East Asia, Europe, Russia, Middle East, and Latin America. Along with regular classroom activities we will also do independent and group projects using a variety of books, current magazines, newspapers, the Internet, and maps. This class does count towards Social Studies requirements.

PSYCHOLOGY

GRADE LEVEL: 11, 12

CLASS LIMIT: 15

PRE-REQUISITE: BIOLOGY

Students will enter the realm of the science of psychology, and will be encouraged to grasp key concepts, theories, and issues, and make them a vital part of their everyday lives. The content areas of the course will be broken down into six areas of student experience: yourself, your body, your mind, your environment, your mental health, and your life. The topics of theories of personality and developmental psychology also will be presented. The course will offer a balance of classic contemporary research. Students will be actively involved in the learning process. This class is an elective.

SCIENCE

APPLIED CHEMISTRY

GRADE LEVEL: 11, 12

PRE-REQUISITE: Algebra 1 or equivalent (Alg 1A + Alg 1B)

Chemistry is a science dealing with the structure and makeup of substances, the changes in composition and the mechanisms which bring about these changes. The Applied Chemistry is a lab science, which covers all chemistry concepts with less mathematical rigor. This class counts towards Science graduation requirements, and is for students planning on attending a community college or trade school.

PHYSICAL SCIENCE w/ EARTH SCIENCE

GRADE LEVEL: 9

PRE-REQUISITE: ENROLLMENT IN ALGEBRA 1 or higher

Physical Science consists of studies in physics, chemistry, Earth's environment, study of land, water, and air, including rock formation, plate tectonics, erosion, and pollution and science as inquiry. It is intended primarily for those students who may have some desire to take Physics

and/or Chemistry during their Junior or Senior years. This class counts towards Science graduation requirements. This class is for students planning on attending a 4 year college or university.

GENERAL BIOLOGY

GRADE LEVEL:10

PRE-REQUISITE: GENERAL OR PHYSICAL SCIENCE

Biology is the study of life in the animal and plant world. This class counts towards Science graduation requirements. This class is for students planning on attending a 4 year college or university.

CHEMISTRY

GRADE LEVEL: 10 with permission, 11, 12

PRE-REQUISITE: ALG. 2 OR TAKING IT

Chemistry is a science dealing with the structure and makeup of substances, the changes in composition and the mechanisms which bring about these changes. Chemistry is a lab science, which requires skill in mathematics. It is a useful, and often a mandatory college prep course. This class counts towards Science graduation requirements. This class is for students planning on attending a 4 year college or university.

ADVANCED CHEMISTRY

GRADE LEVEL:11, 12 OR INSTRUCTOR'S PERMISSION

PRE-REQUISITE: COMPLETED ALG II AND "C" OR HIGHER IN CHEMISTRY (or instructor's permission)

This is a course that will offer Advanced knowledge above and beyond the General Chemistry offering and including: Advanced Gases, Liquids and Solutions; Gases and the Mole; Reaction Rates and Chemical Equilibrium; Solutions and Electrolytes; Advanced Oxidation-Reduction Reactions; Electrochemistry; Nuclear Chemistry; Organic and Bio-Chemistry. Advanced lab experiences will occur along with advanced power point presentations and discussions. This class counts towards Science graduation requirements. This class is for students planning on attending a 4 year college or university.

ADVANCED BIOLOGY

GRADE LEVEL: 11, 12

PRE-REQUISITE: "C" OR HIGHER IN GENERAL BIOLOGY & CHEMISTRY(either have taken it or concurrent), or have obtained instructor's permission

An advanced study of biological principles. Areas of introduction would include ecosystems, classification, psychobiology, and systemology of plants and animals. This class counts towards Science graduation requirements. This class is for students planning on attending a 4 year college or university. Students taking this class may choose to receive dual credit through Mid-Plains Community college.

HUMAN PHYSIOLOGY/ANATOMY

GRADE LEVEL: 11, 12

PRE-REQUISITE: GENERAL BIOLOGY & CHEMISTRY(either have taken it or concurrent)

A major study of the structure and functions of the systems of man. This class counts towards Science graduation requirements. This class counts towards Science graduation requirements. This class is for

students planning on attending a 4 year college or university.

PHYSICS

GRADE LEVEL: 11, 12

PRE-REQUISITE: PRECALCULUS (concurrent) or INSTRUCTOR'S PERMISSION

Students will learn about the scientific principles that govern our world. Time will be spent in the classroom and in the lab learning concepts in motion (linear and rotational), gravity, work, energy, fluid mechanics, heat, and thermodynamics. Instruction will emphasize both conceptual and numerical understanding of the topics. Physics is an important course for medical, engineering, and other technical careers. This class counts towards Science graduation requirements. This class is for students planning on attending a 4 year college or university. Students taking this course may choose to receive dual credit through Mid-Plains Community College.

MEDICAL TERMINOLOGY (Semester 1)

GRADE LEVEL: 11, 12

PRE-REQUISITE: APPLIED CHEMISTRY OR CHEMISTRY

Suggested after or in conjunction with A & P. This class will include medical vocabulary and the breaking down of root words as well as suffixes, prefixes, and abbreviations relating to health understanding and medical literacy.

INTRO TO HEALTH CAREERS (Semester 2)

GRADE LEVEL: 11, 12

PREREQUISITE: MEDICAL TERMINOLOGY

This course will include CPR safety and First Aid, which will include some sports medicine. This course will build on from Med Terms and discuss behavioral health. The course will also entail exploration of a variety of health-related careers as well as job shadows or consultations in the field.

MATH

ALGEBRA 1A

GRADE LEVEL: 9

PRE-REQUISITE: none

This class will start out with fundamentals and then move into the first half of Algebra 1. The same material will be covered as is covered in the first half of Algebra 1, just at a slower pace.

ALGEBRA 1B

GRADE LEVEL: 10, 11, 12

PRE-REQUISITE: ALGEBRA 1A

This is a continuation of Algebra 1A. The second half of Algebra 1 will be covered, just at a slower pace. Algebra 1A & 1B will be recognized as Algebra 1 credit for college purposes.

ALGEBRA 1

GRADE LEVEL: ALL

Designed for a wide range of students taking first year Algebra. The emphasis is placed upon the teaching of Algebra as an aid to everyday problem solving and providing the background necessary for continued study in mathematics. This class counts towards Math graduation requirements. This class is for students planning on attending a 4 year college or university.

ALGEBRA 2

GRADE LEVEL 10-12

PRE-REQUISITE: ALGEBRA 1, GEOMETRY

More in-depth study of Algebra 1 and essential topics of Algebra 2 are introduced. A brief introduction to trigonometry and logarithms are included. This class counts towards Math graduation requirements. This class is for students planning on attending a 4 year college or university.

GEOMETRY

GRADE LEVEL: 10-12 (9th grade with instructor's permission)

PRE-REQUISITE: ALGEBRA 1

Through the study of Geometry, students will strengthen their ability to systematically attack and solve problems. They will also understand and appreciate the basic structure of geometry, with an element of algebraic review and reinforcement. Right triangle trigonometry will also be introduced in this course. This class counts towards Math graduation requirements. This class is for students planning on attending a 4 year college or university.

STANDARD MATHEMATICAL CONCEPTS

GRADE LEVEL: 11-12

This course will provide students with a wide range of mathematical concepts including Algebra, Geometry, Probability & Statistics, Problem Solving, Measurement, and Estimation.

PROBABILITY AND STATISTICS

GRADE LEVEL: 11-12

PRE-REQUISITE: ALGEBRA 1 AND ALGEBRA 2

This course is designed to answer the growing need for a year-long course in probability and statistics. It is intended to give students a working knowledge of probability and statistics as a growing number of majors in college require this course for graduation. Topics covered will include introduction to statistics, displaying data, frequency distributions, summarizing data, probability, sampling, hypothesis testing, means testing, correlation, and analysis of variance. This class counts towards Math graduation requirements. This class is for students planning on attending a 4 year college or university. Students taking this course may choose to receive dual credit through Mid-Plains Community College.

PRE-CALCULUS

GRADE LEVEL: 11-12

PRE-REQUISITE: ALGEBRA 1 & 2, GEOMETRY

This course includes advanced algebra concepts, functions, polynomials and rational functions, exponential & logarithmic equations, conic sections, trigonometry, and sequences & series. This class counts towards Math graduation requirements. This class is for students planning on attending a 4 year college or university. Students taking this course may choose to receive dual credit through Mid-Plains Community College.

CALCULUS

GRADE LEVEL: 12

PRE-REQUISITE: PRECALCULUS OR INSTRUCTOR'S PERMISSION

This course includes material typically covered in a semester-long introductory college calculus course including review of functions, limits, derivatives and their applications, integration, plus exponential and logarithmic functions. The class is taught from an analytical and numerical perspective with a strong emphasis on use of calculator and computer technology

to graphically illustrate and visualize problems and applications. This class is for students planning on attending a 4 year college or university. Students taking this course may choose to receive dual credit through Mid Plains Community College.

CONSUMER MATH

GRADE LEVEL: 12

PRE-REQUISITE:

This course includes math for everyday life; such as wages, taxes, budgets, checking and savings, credit, automobile expenses, renting an apartment, buying a house, personal finance, investments, etc.

HEALTH & P.E.

9TH P.E. AND HEALTH

GRADE LEVEL: 9

PRE-REQUISITE: NONE

We will expose students to and help them select constructive and physically beneficial activities for a lifetime. We will provide an environment that will develop the student not only physically, but also mentally, emotionally, and socially. All team sports such as football, volleyball, and basketball will be covered. This class counts towards P.E. graduation requirements.

ADAPTED PHYSICAL EDUCATION

GRADE LEVEL: 9, 10, 11, 12

Physical Education which may be adapted or modified to address the individual needs of children and youth who have gross motor developmental delays. Purpose: To enhance the development of motor skills of students that have physical disabilities in the least-restrictive environment.

The APE teacher is a direct service provider, not a related service provider, because special physical education is a federally mandated component of special education services (U.S.C.A. 1402(25)).

BEGINNING STRENGTH & FITNESS

GRADE LEVEL: 10,11,12

This is a beginning course for students taking Strength & Fitness for the first time. The course will provide students with an opportunity to improve their level of strength and conditioning. The course will include not only weight training, but also other methods to improve fitness, including daily running and plyometrics. This class is an elective.

ADVANCED STRENGTH & FITNESS

GRADE LEVEL: 11, 12

PRE-REQUISITE: BEGINNING STRENGTH & FITNESS

This course will provide students with an opportunity to improve their level of strength and conditioning. The course will include not only weight training, but also other methods to improve fitness including daily running and plyometrics. **If the class is taken a second time as a senior, the grade issued will be pass or fail, with passing being 85% or higher.** This class is an elective.

LIFETIME SPORTS & FITNESS

GRADE LEVEL: 10, 11, 12

The purpose of this course is to introduce students to a variety of physical activities. Lifetime Fit course offers weight training three days a week and a variety of recreational and sport related activities the other two days. Individual workouts will be set up for each student to improve upon strength, flexibility, endurance and participate in individual and team tournaments. In this program the emphasis is on lifetime activities, appropriate dress, respect, active participation, sportsmanship, fair play, cooperation and a positive attitude. Individual fitness levels are assessed four times throughout the semester and structured workouts are organized giving students the opportunity to set and achieve personal success. This will be a course to help strengthen not only your body, but your mind as well.

FOREIGN LANGUAGE

SPANISH 1

GRADE LEVEL: 10-12

PRE-REQUISITE: RECOMMEND "C" AVERAGE IN ENGLISH

This is an introduction to the Spanish language and culture. Students will attain an acceptable degree of proficiency in the four skills of listening, speaking, reading, and writing. Students will also learn about Spanish foods, music, and various customs. This class is an elective, and for students planning on attending a 4 year college or university.

SPANISH 2

GRADE LEVEL: 11-12

PRE-REQUISITE: SPANISH 1, RECOMMEND "C" AVERAGE IN ENGLISH

Continuation of Spanish 1, including mastery of past and future verb tenses, composition, communication, and cultural material. This class is an elective, and for students planning on attending a 4 year college or university.

SPANISH 3

GRADE LEVEL 11-12

PREREQUISITE: SPANISH 2

Spanish III is a continuation of Spanish II. Students will continue their study of simple verb tenses and be introduced to several of the compound verb tenses and the use of the subjunctive mood. More emphasis will be placed on conversation and composition than in Spanish II. At the completion of the course, students should be able to read from selected authentic Spanish works and be able to initiate and sustain a conversation at the intermediate level. This class is an elective, and for students planning on attending a 4 year college or university.

BUSINESS AND COMPUTERS

INTRODUCTION TO BUSINESS & ENTREPRENEURSHIP

Grade Level: 9,10,11,12

This is a basic business course designed to acquaint students with the activities associated with a business. Students will gather a basic understanding of general business, economics, entrepreneurship, business communications, business ethics, and the government's role in business, marketing, and business

finance. Overall, the course gives students a broad exposure to business operations and a solid background for additional business courses. The course covers what makes a good entrepreneur, types of ownership, business plans, marketing, financing a business and accounting. The class explores entrepreneurial theory as well as real world situations.

INFORMATION TECHNOLOGY I (semester 1)

GRADES: 9

CLASS LIMIT: 20

PRE-REQUISITE: NONE

The computer system used is Windows 7; primary computer software used is Microsoft Word 2016, Microsoft PowerPoint 2016, and Microsoft Excel 2016. These are the primary software programs that students will be used throughout high school, college, and in a variety of workplaces.

Students will demonstrate positive cyber citizenship by applying industry accepted ethical practices and behaviors. They will also use advanced document processing applications to prepare business communications (MS Word), demonstrate effective professional communication skills and practices in professional presentations (MS PowerPoint), employ basic to intermediate spreadsheet applications to organize and manipulate data (MS Excel), and synthesize basic to intermediate database management concepts to manage and evaluate.

Students will learn the basics of the Google Suite, including but not limited to: Chrome, Gmail, Drive, Docs, Slides, and Sheets.

This class is required for graduation from Valentine High School.

CAREERS (semester 2)

Grade Level: 9

PRE-REQUISITE: NONE

This is a course that is designed to prepare students for their immediate and long-term futures. This course will utilize a variety of lessons, activities, and guest speakers as students prepare to examine their interests and abilities in anticipation of the world of work with or without college. A major emphasis will be placed on choosing a career interest that will bring satisfaction and happiness during a lifetime of employment. Students will get to meet individuals in and out of the community who are part of different industries and learn about those career fields to gain further knowledge about particular fields.

This class is required for graduation from Valentine High School.

WEB DESIGN (semester 1)

Grade Level: 10, 11,12

Students will demonstrate knowledge of web design, utilize web design software to develop web pages, and create a website. Students will apply principles and elements of design using images, hyperlinks, tables, forms, columns, widgets, themes, and layers. The programs used will be Google Sites and Adobe Muse. Students may also maintain a web site. This class is paired with Marketing.

MARKETING (semester 2)

Grade Level: 10,11,12

It will explore the activities involved in the foundations and functions of marketing products, services, images, and ideas. The course is project oriented and will include a more in-depth look into marketing. Each student will have the opportunity to explore a variety of careers in marketing. This course is a great exploration into the world of marketing and is an important step before Entrepreneurship and Business Law. This class is paired with Web Design.

BUSINESS LAW

Grade Level: 11, 12

This course will give students a solid foundation in business law, while also introducing personal law topics that affect them on a daily basis. Students will be challenged to think analytically as they study classic legal cases as well as recently decided cases. The course will include the following topics: contract law, property law and employment law. Additional topics may be added as time permits. Students in this course are encouraged to join Business Professionals of America.

ACCOUNTING I

Grade Level: 10, 11, 12

The primary focus of Accounting I is to learn the rules and procedures of accounting for a profit-motivated business. Students will learn how to produce useful business information as well as use the information to make wise business decisions. Students will be introduced to the language of business and basic accounting principles.

ACCOUNTING II

Grade Level: 11, 12

Prerequisite: Passing grade in Accounting I

This course builds on the foundation of Accounting I. The fundamental principles of accounting will be reinforced, but the course will focus primarily on more advanced accounting concepts and procedures.

DIGITAL MEDIA

GRADES: 10, 11, 12

CLASS LIMIT: 20

PRE-REQUISITE: A PASSING GRADE IN INFORMATION TECHNOLOGY I

The computer system used is Windows 7; the primary computer software used is Microsoft Excel 2016, Microsoft Access 2016, and Microsoft Publisher 2016. GameSalad, Google Drive, Google Sites, and Adobe Premiere will also be integrated throughout the year.

Students will employ advanced spreadsheet applications to organize, aggregate, and manipulate data, synthesize advanced relational database concepts to design, manage, evaluate, and organize information in an effective manner, develop an awareness of web fundamentals, and use critical thinking skills to integrate information technology tools to access, manage, and create new information through a teen simulation where students “start their own business” that utilizes the complete Microsoft Office Suite. Students will also explore a variety of technologies that incorporate video production, video game design and production, cloud applications and storage, and mobile devices.

CODING

GRADE LEVEL: 10-12

PRE-REQUISITE: Algebra 1

Description: This course introduces students to the foundational concepts of computer science. It covers many topics including the Internet, Big Data and Privacy, and Programming and Algorithms.

BUSINESS AND PERSONAL FINANCE

GRADE LEVEL: 10, 11, 12

PRE-REQUISITE: NONE

The goal of personal finance is to help students become financially responsible, conscientious members of society! This course develops student understanding and skills in money management; budgeting; financial goal attainment; use of credit; insurance; investments; and consumer rights and

responsibilities. Applications of academic concepts, technology, and career planning are integrated throughout the curriculum.

Business and Personal Finance can help you navigate the financial decisions you face today and tomorrow through teaching financial management skills. Students will learn how to use their personal financial resources to enjoy today and be financially secure in the future!

INTERNSHIP

GRADE LEVEL: 12

Students must submit their credentials to businesses within the community to be chosen for an interview and possible internship with that business on a daily basis. Students will know if they have been chosen for an internship prior to the beginning of the fall semester. This course is designed to help students learn about every aspect of a business and possible career choices.

FINE ARTS

ART 1

GRADE LEVEL: ALL

This class consists of the study of the basic elements of art and principles of design. Learning these will be accomplished through experience in drawing, painting, printmaking, and sculpture. This class is an elective.

ART 2

GRADE LEVEL: 10, 11, 12

PRE-REQUISITE: ART 1

The goal here is to advance beyond the basics from ART 1 adding new experiences in a variety of media and a continued focus on the elements of art and principles of design. This class is an elective.

ART STUDIO 1

GRADE LEVEL: 11, 12

PRE-REQUISITE: ART 1&2, INSTRUCTOR'S PERMISSION

Students will advance their art techniques in a variety of mediums. Production of individual art will be a collaborative decision between the instructor and student. Students will start an art portfolio of their artwork. It will contain an art resume, recommendations, and digital portfolio of their work. This class is an elective.

ART STUDIO 2

GRADE LEVEL: 12

PRE-REQUISITE: ART 1&2, INSTRUCTOR'S PERMISSION

This course is an extension of Art Studio 1, therefore, the same rules and descriptions that apply to Art Studio 1 will also apply to Art Studio 2. This class is an elective.

PHOTOGRAPHY

GRADE LEVEL: 10-12

Students will use ipads, iphones, and smartphones as cameras to explore creative methods of photography as art. Students will compose a wide variety of photos in various environments. The photos will be manipulated and edited using apps and online resources. Students will have a diverse portfolio of digital photos to share in digital format and in printed form. An appreciation of photographers through the ages and styles will be included.

DIGITAL ART

GRADE LEVEL: 11-12

PRE-REQUISITE: Art I and Art II

Students will create art using technology/digital devices to draw and paint. The basic elements of art and principles of design will be the foundation of the digital creative process. Digital drawing and painting is the medium for creating still life, portraits, figure drawing, landscapes, and illustrations. Students will create a digital portfolio.

BAND 1

GRADE LEVEL: ALL

PRE-REQUISITE: NONE

An entry level band course. Students will work on a variety of technical skills, concentrating on all major scales. Students will work on a variety of literature, theory, and history projects within the band classroom. Students will also perform marching band shows in the fall, and put on no less than two concerts throughout the course of the year. They will also participate in pep band activities throughout the year, and perform at district music contest in the spring. This class is an elective.

BAND 2

GRADE LEVEL: ALL

PRE-REQUISITE: BAND 1

Students will be responsible for a more complex level of technical skill than Band 1 students. They will become competent with their minor scales, and continue the development of increasing technical difficulty in their playing. Students will work on a separate set of literature, theory, and history than those of Band 1. Students will also perform marching band shows in the fall, and put on no less than two concerts through the course of the year. They will also participate in pep band activities throughout the year, and perform at district music contest in the spring. This class is an elective.

BAND 3

GRADE LEVEL: ALL

PRE-REQUISITE: BAND 2

Students will be responsible for an intermediate level of technical skill, involving all their major and minor scales, as well as a partial chromatic scale. The technical skill required for Band 3 is more in depth than that of Band 1 and 2. Students will develop knowledge of literature, theory, and history, separate from those of Band 1 and 2. Students will also perform marching band shows in the fall, and put on no less than two concerts through the course of the year. They will also participate in pep band activities throughout the year, and perform at district music contest in the spring. This class is an elective.

BAND 4

GRADE LEVEL: ANY

PRE-REQUISITE: BAND 3

Students will be accountable for an advanced level of technical skill, progressing from partial chromatic scale to the full range of their instrument. Technical skill required is at an advanced level of playing, and interpreting music. Students will progress in their study of literature, theory, and history, separate from those of prior band classes. Students will also perform marching band shows in the fall, and put on no less than two concerts through the course of the spring. They will also participate in pep band activities throughout the year, and perform at district music contest in the spring. This class is an elective.

CHOIR 1

GRADE LEVEL: 9, 10

PRE-REQUISITE: NONE

A choir open to all freshman and sophomore students to participate. Students will be responsible to learn a varied repertoire of music, and perform at no less than three concerts throughout the year. Students will also develop knowledge of music literature, theory, and history. Students will develop a broad knowledge base, focusing on tone, harmony and pitch accuracy. If taken a 2nd year, the student will receive a pass/fail grade. Passing is 85% or better. This class is an elective.

CHOIR 2

GRADE LEVEL: 11, 12

PRE-REQUISITE: NONE

A choir open to all Juniors and Seniors. Students will be responsible for an advanced level of repertoire and increased pitch accuracy, tone, and harmony. Students will expand their knowledge of music literature, theory and history. Students will perform at no less than three concerts throughout the year. If taken a 2nd year, the student will receive a pass/fail grade. Passing is 85% or better. This class is an elective.

INDUSTRIAL TECHNOLOGY & AGRICULTURE

DRAFTING MECHANICAL/ARCHITECTURAL

GRADE LEVEL: 9-12

CLASS LIMIT: 16

PRE-REQUISITE: None

In this class students will explore the world of drafting and designing using advanced computer-aided drafting software (CAD). Basic mechanical drafting the first semester and architectural drafting the second semester. In mechanical drafting students will design and print 3D models using a MakerBot 3D printer. In architecture students will design and draft their own house plan and build a scale model of it. (SketchUp, AutoCAD, AutoSketch, Chief Architect) Career opportunities in drafting areas will be explored. This class is an elective. Students taking this course may choose to receive dual credit through Mid-Plains Community College. CTE 100140 / 100141

BASIC WOODS

GRADE LEVEL: 9, 10, 11, 12

CLASS LIMIT: 12

PRE-REQUISITE: None

The first 9 weeks will be introductory to woodworking, problem solving and learning CAD (computer aided designing software) for designing the first class project. The second 9 weeks will be power tool operations and safety procedures, tests and a class project utilizing CAD and our CNC wood carvings machine. Second semester the students will take their knowledge of basic woodworking and produce a large project of their choice such as an TV stands, book cabinet, wall shelf, gun rack, coffee table, cedar chest, etc. This class is an elective. CTE 100100 / 101920

ADVANCED WOODS & MATERIALS

GRADE LEVEL: 10, 11, 12

CLASS LIMIT: 12

PRE-REQUISITE: BASIC WOODS

Advanced Woods and Materials is a project oriented class that will allow you to incorporate a large range of building materials into a project of your choice for a modern and creative look. Materials

available to use but not limited to include: hard and soft woods, metal, glass, formed concrete, brass, logs, ceramic tiles, plasma cut designs, CNC wood carvings, plastics, fabric, etc. Safety procedures and advanced tool techniques and use will be learned. After researching your project, it will be drawn using CAD programs (computer aided designing) . Example project may be log furniture, gun cabinet, entertainment center, entrance signs, outdoor structures, etc. This class is an elective. CTE 101921

BUILDING TRADES

GRADE LEVEL: 10, 11, 12

PRE-REQUISITE: NONE

This course will provide students with the experience and training in the core areas of residential construction known as the “Building Trades” - Masonry, Carpentry, Electrical, HVAC, Plumbing and Print Reading. Students will become familiar with the tools, materials and processes commonly used in the building industry today and will participate in a variety of construction activities including field trips, career exploration and the construction of a mock house in order to meet the course competencies as well as prepare him/her with employable skills. 100130

BUILDING CONSTRUCTION

GRADE LEVEL: 12

CLASS LIMIT: 10

PRE-REQUISITE: BASIC WOODS IS RECOMMENDED

This career development course covers aspects of residential building construction with an emphasis on development of skills through classroom instruction and by hands-on work experiences. Each year the class will design and build a real life project off campus, (example 2 car garage, house remodeled). Topics include developing plans, estimating, foundations, framing, roofing, electrical, plumbing, HVAC, and construction safety . Career opportunities in building construction areas will be explored. This class is an elective. CTE 100110 / 100120

VHS AGRICULTURE EDUCATION

Note: All students enrolled in at least one semester of Agriculture Education are eligible to be an FFA member. FFA is the youth organization for Agriculture Education students. If the student elects to join FFA, they will be eligible to participate in FFA contests. Some of the class activities may be closely related to FFA, but **all** students are expected to participate in **all** class activities. All students in all Agriculture Education classes will be required to have a Supervised Agriculture Experience (SAE) program and keep the appropriate records for their SAE program.

Agriscience

Welding – Two Sections

Structural and Power Systems

Manufacturing and Production

Animal Biology/Large Animal Management

* *Alternating courses –*

* *Ag Business/Food Science*

* *Plant Science/Nursery Landscape*

Class flow chart

Freshman – Agriscience

Sophomore – Plant Science/Nursery Landscape or Welding

Junior – Plant Science/Nursery Landscape or Structural and Power Systems
Senior – Animal Biology/Large Animal Management or Manufacturing and Production

AGRISCIENCE (Used to be AG ED I)

Grade level: 9

Enrollment limit: None

Pre-requisite: None

Course Description: This is a two semester class that is an introduction to basic agriculture concepts in the following areas, range management, livestock management, agricultural leadership, exploring agriscience, SAE project, record keeping, and the FFA.

References: Range Judging Handbook and Contest Guide for Nebraska, EC01 – 150 – F, Livestock Judging Guide EC 2-05-97, FFA Student Handbook and Exploring Agriscience, Herren.

MANUFACTURING AND PRODUCTION (Used to be Ag Mechanics)

Grade level: 12

Enrollment: 12

Pre-requisite: Welding and Structural and Power Systems

Course Description: This is a two semester class designed to teach basic skills in manufacturing and metal fabrication. Areas covered include; SAE project and records, communication skills, advertising, business finances, manufacturing today, a safe and productive workplace, metal working, hand and power tools, machine tooling, producing products, quality management, welding and project planning and construction.

Requirements: A lab fee of \$20 will be charged per student for the following safety items; safety glasses - \$4.00 value, apron - \$8.00 value, welding gloves - \$4.00 value, and pliers - \$4.00 value. The lab fee will be refunded for those safety items returned in reasonable condition.

References: High-Performance Manufacturing: Portable Production Skills, McGraw Hill

WELDING

Grade Level: 10-12

Enrollment Limit: 15

Course Description: This is a two semester course designed to teach the basic and advanced principles in Shielded Metal Arc Welding(SMAW or Arc), Gas Metal Arc Welding(GMAW or MIG), and Oxygen Acetylene Welding(OAW). Areas covered in this course include, SAE project and record keeping, welding shop safety, equipment operation, flat position welds, position welds in horizontal, vertical up, vertical down, overhead positions, basic shop skills, operation of welding machine shop tools, and light project construction. Students may choose to take this course for dual credit through Mid Plains Community College.

Requirements: Students will be required to have their own safety glasses and pliers. Students may bring them from home and approve them with the instructor, or they may be purchased from the school: Pliers \$4, Safety Glasses \$4

References: Welding Skills, Moniz and Miller

STRUCTURAL AND POWER SYSTEMS

Grade level: 10-12

Enrollment Limit: 15

Course Description: This is a two semester course that provides instruction in agricultural mechanics and small gas engines. Areas of instruction include: SAE project and record keeping, shop

safety, tools, general shop skills, ag mechanics skills, electricity, plumbing, hydraulics, GPS systems, concrete, ag structures, principals of small engine operation, engine systems, engine service, engine disassembly and inspection, engine assembly, and service a small Briggs&Stratton Engine.

Requirements: Students will be required to have their own safety glasses. Students may bring them from home and approve them with the instructor, or they may be purchased from the school:
Safety Glasses \$4

ANIMAL BIOLOGY/LARGE ANIMAL MANAGEMENT

Grade Level: 10-12

Course Description: This is a two semester course with the first semester focussing on Animal Anatomy and Physiology including skeletal systems, digestive systems, and reproductive systems of livestock. The second semester will focus on Large Animal Management with emphasis placed in the Beef Industry. Items that will be covered will include: Balancing Rations, Diseases, Breeding Systems, Biotechnology in Animal Science, and Livestock Handling Facilities. Species that will be discussed throughout this course include: Beef, Dairy, Equine, Poultry, Swine, and Sheep.

PLANT SCIENCE/NURSERY LANDSCAPE

Grade Level: 10-12

Course Description: This is a two semester course with the first semester focussing on Range Management, Plant Biology, Soil Science, Water, Nutrient Requirements, Temperature, Light, and Biological Reactions. The second Semester will include Plant Propagation, Principles of Greenhouse and Nursery Management, Floriculture practices and design, and Landscaping Design. SAE project and Record Keeping will also be a requirement of this course.

AG BUSINESS/FOOD SCIENCE

Grade Level: 10-12

Course Description: This is a two semester course that provides instruction in Agribusiness Management and Food Science. The first semester will focus on Agribusiness Management and will include: SAE project and record keeping, Proficiency Applications, financial analysis, budget analysis, cost and return analysis, cash flow analysis, marketing, investment analysis, taxes, and business organizations. The second semester will be focused on Food Science and will include, SAE project and record keeping, "Food from around the World", Food Safety, Food Preservation methods, Food Nutrition, Dairy Products, Meat Industry, and Food Product Development.

AG LEADERSHIP AND ETHICS

Grade Level: 12

Prerequisite: Instructor Permission

This is an independently led course that will focus on leadership in agriculture. This senior capstone course will allow students to truly experience the Agriculture Education model of Classroom, FFA, and SAE. Students will gain and develop leadership skills through advocating agriculture to the community, developing their SAE's and competing in FFA Competitions.

Miscellaneous

INDEPENDENT STUDY

GRADE LEVEL: 11-12

PRE-REQUISITE: ACCUMULATED GPA OF 90% OR HIGHER , NO STUDY HALL, STUDENT HAS TAKEN (OR IS ON COURSE TO TAKE) EVERY CLASS THE DEPARTMENT

OFFERS, INSTRUCTOR'S & ADMINISTRATIVE PERMISSION

This course will deal with a specific subject chosen by the student. It is suggested the subject is one that the student has an interest to pursue with post secondary education. The course may be taken only 1 time during a students' time here at VHS. The student cannot be enrolled in a Study Hall. This class cannot be substituted for core class graduation requirements. Students taking this class will have 2 options: #1 – the student must provide an outline stating what content the class will entail; the outline must be approved by the teacher and the Principal or Guidance Counselor. This must be completed before registering for this class. #2 – the student may take the class through a higher institution of learning on-line; this must be approved by the instructor proctoring the student and the Guidance Counselor or Principal. The costs of this option will be the responsibility of the student. This class is an elective.

TEACHER'S AIDE

GRADE LEVEL: 12

PRE-REQUISITE: TEACHER PERMISSION

NO STUDY HALL

STUDENT HAS MET ALL GRADUATION REQUIREMENTS EXCEPT AM.

GOVERNMENT AND A SENIOR ENGLISH CLASS OR ITS EQUIVALENT

The student will be selected by a teacher to be the teacher's aide. Duties will include doing many different kinds of projects and/or errands for the teacher. The grade issued will be Pass/Fail. This class is an elective.

STUDY HALL

GRADE LEVEL: ANY

PRE-REQUISITE: ONLY 1 STUDY HALL PER SCHOOL YEAR PER STUDENT

It is recommended that any student taking a class load consisting of several core classes, take Study Hall. Students will have the chance to do research, read, do homework, etc. in their Study Hall. It is an excellent opportunity for students to keep up with their studies. This is a non-credit class.

DUAL CREDIT COURSES

High School Course Name	Mid Plains College Course Name	College Credits
Applied Communications 12	CAPC 1720 Career Assessment/Planning	2
Pre-Calculus	MATH 1150 College Algebra	3
Calculus	MATH 1450 Analytic Geometry & Calculus	5
Drafting	ARCH 1760 Computer Assisted Drafting	2
Physics	PHYS 1410	5
College Composition	ENGL 1010 Expository Writing	3
Food Science/Ag Business	AGRI 1745	3
Statistics	MATH 1200 Elements of Statistics	3
Welding 1	WELD 1110 Arc and Gas Welding	5
Advanced Bio	BIOS 1010 Gen Bio	4
Plant Science/Landscaping	AGRI 1030	4

Mid-Plains Community College has the following requirements in order to enroll in their college classes:

- For College Composition, you must have an ACT score of 18 in both English and Reading OR

take the ACCUPLACER.

- For Pre-Calculus, you must have a Math ACT score of at least a 22 OR take the ACCUPLACER.
- For Statistics, you must have a Math ACT score of at least a 22 OR take the ACCUPLACER test.
- For Calculus, you must have a Math ACT score of at least a 28 OR take the ACCUPLACER test.