

CURRICULUM GUIDE TABLE OF CONTENTS	
Advanced Placement & Ind. Study Physics	26-28
College Admission Requirements	3
College Credit Online Courses	8-9
College Tuition Program	9
COURSE DESCRIPTIONS	
Business	11-12
Fine Arts	13-15
Foreign Language	16
Industrial Technology	17-18
Language Arts	19-20
Mathematics	21
Physical Education	22
Science	23-24
Social Studies	25
Freshmen Courses	7
Graduation Requirements	10
Junior Courses	5
Planning	2
Senior Courses	4
Sophomore Courses	6

HIGH SCHOOL - IS FOUR YEARS WORTH PLANNING?

What would you say to a person who asked you to spend four years of your life studying books, writing papers, taking tests, doing work in the evening, giving speeches, and more--for no pay, no food, or no housing? You would probably not refuse if there were some sort of guarantee that the work you had put in would eventually prove valuable and worth the effort.

This is what the people of our community and state want you to do! Those four years will be your high school career. The time and work you put into high school will be well worth the effort. However, careful planning is very necessary. What you get out of high school depends almost entirely on you!

In America today almost all signs point in the same direction: the direction is toward more and better training for young people. The bosses and employers of our nation want men and women with skills. High school can help give you the start you need.

One very important step in high school is taking the kinds of courses that will eventually help you the most. There are many, many students in high school who aren't sure what career they would like to follow. This is perfectly all right. As a matter of fact, high schools would be a place to explore different possibilities for a future career. However, there are some general guidelines that may help you to explore some careers while at the same time, receive some training and skills that will help you in the future.

The kinds of courses you should take in high school depend on two things. First, you must determine generally what type of job you are interested in. This may be business, manufacturing, agriculture, skilled occupations, professional occupations and others. If you are completely undecided, a general selection of courses might be best.

Secondly, there may be many levels within a job area based on the amount of training and experience you have. Generally, the better jobs (more pay and more benefits) are given only to those people who have the most training and/or experience.

When students ask, "What courses should I take?" They need to think about the general type of job they want and secondly how much education they need to be hired.

Here are some guidelines for high school course selection:

- 1. Pick a goal. What do you want to do after high school?**
- 2. Try to find out how much and what kind of training and types of courses in high school are needed to reach that goal.**
- 3. Remember that each year is equally important in helping you to prepare yourself for graduation.**
- 4. Investigate and explore as much as possible the various careers you might be interested in while you are in high school. Now is the time to start planning - not a month before you leave our high school to get a job or go on to school.**

ADMISSION REQUIREMENTS IN NEBRASKA

University of Nebraska (UNO, UNK, UNL)

- 4 years of English
- 3 years of mathematics (4 years at UNL)
- 2 years of foreign language
- 3 years of natural sciences
- 3 years of social studies

State Colleges (Wayne, Peru, and Chadron)

- 4 years of English
- 3 years of social sciences
- 3 years of mathematics
- 2 years of laboratory sciences
- Courses in foreign language, fine and performing arts, and computers

Private Colleges and Universities (Concordia, St. Mary's, Nebraska Wesleyan, etc)

- 4 years of English
 - 3 years of social sciences
 - 3 years of mathematics
 - 2 years of laboratory sciences
- Courses in foreign language, fine and performing arts, and computers

Community Colleges

High school preparation in the following subjects:

- English
- Mathematics
- Science
- Computers

Trade Schools

Complete coursework in the following subjects:

- English
- Mathematics
- Science
- Computers

Requirements may vary in some colleges or universities. Be sure to contact the school(s) you are interested in attending to get specific information.

SENIOR COURSES

BUSINESS

Accounting I
Accounting II
Personal Finance
Business/Consumer Law
Business Computer Applications I
Business Computer Applications II
Business Technology & Entrepreneurship
Interactive Media & Web Design

FINE ARTS

Band
Chorus
Art 1
Art 2
Art 3
Art 4
Photography (1 semester)
Advanced Photography (1 semester)
Graphic Design

FOREIGN LANGUAGE

Spanish I
Spanish II
Spanish III

INDUSTRIAL TECHNOLOGY

Mechanical Drafting (1 semester)
Woods I (1 semester)
Woods II
Building Construction & Trades
CAD
Advanced CAD

LANGUAGE ARTS

*English 12
Journalism (Annual)

MATHEMATICS

Algebra II
PreCalculus
Calculus

PHYSICAL EDUCATION

Weights

SCIENCE

Chemistry
Physics
Anatomy
Astronomy/Environmental Science

SOCIAL STUDIES

*Government/Economics
Psychology (1 semester)

*Denotes Required Classes

JUNIOR COURSES

BUSINESS

Accounting I
Accounting II
Business/Consumer Law
Business Computer Applications I
Business Computer Applications II
Business Technology & Entrepreneurship

FINE ARTS

Band
Chorus
Art I
Art II
Art III
Photography (1 semester)
Graphic Design

FOREIGN LANGUAGE

Spanish I
Spanish II
Spanish III

INDUSTRIAL TECHNOLOGY

Mechanical Drafting (1 semester)
Woods I (1 semester)
Woods II
Building Construction & Trades
CAD
Advanced CAD

LANGUAGE ARTS

*English 11
Journalism I (Annual)

MATHEMATICS

(One of these courses must be taken)

Algebra II
Geometry
PreCalculus

PHYSICAL EDUCATION

Weights

SCIENCE

Chemistry
Physics
Anatomy
Astronomy/Environmental Science

SOCIAL STUDIES

*American History 11
Psychology (1 semester)

*Denotes Required Classes

SOPHOMORE COURSES

BUSINESS

Accounting I
Business Computer Applications I
Business Computer Applications II

FINE ARTS

Band
Chorus
Art I
Art II

FOREIGN LANGUAGE

Spanish I
Spanish II

INDUSTRIAL TECHNOLOGY

Mechanical Drafting (1 Semester)
Woods I (1 semester)
Woods II
CAD
Advanced CAD

LANGUAGE ARTS

*English 10

MATHEMATICS

Algebra I
Algebra II
*Geometry

PHYSICAL EDUCATION

*Physical Education 10/Health

SCIENCE

*Biology

SOCIAL SCIENCE

*Geography 10

*Denotes Required Classes

FRESHMEN COURSES

BUSINESS

*Business Computer Applications I

FINE ARTS

Band
Chorus
Art I

FOREIGN LANGUAGE SCIENCE

Spanish I

INDUSTRIAL TECHNOLOGY

Mechanical Drafting (1 semester)
Woods I (1 semester)
CAD

LANGUAGE ARTS

*English 9

MATHEMATICS

*Algebra I

PHYSICAL EDUCATION

*Physical Education 9

SCIENCE

*Physical Science

SOCIAL SCIENCE

*World History 9

*Denotes Required Classes

**ONLINE CLASSES: COLLEGE CREDIT
JUNIOR AND SENIOR STUDENTS**

PERU STATE COLLEGE

SEMESTER 1

English Composition
Appreciation of Literature
American History before 1865
World Civilization before 1500
American National Government
Human Growth & Development
Wellness
Interpersonal & Small Group
Communication

SEMESTER 2

Advanced Composition
Appreciation of Literature
American History after 1865
World Civilization after 1500
American National Government
Human Growth & Development
Wellness
Interpersonal & Small Group
Communication

**COMMUNITY COLLEGES
SOUTHEAST – METRO – NORTHEAST**

Introduction to Psychology
Art Appreciation
Legal Environment & Contract Law
Information Systems Concepts &
Applications

Introduction to Sociology
Principles of Financial Accounting
Commercial Law
Principles of Macroeconomics

UNIVERSITY OF NEBRASKA AT LINCOLN ADVANCED SCHOLARS

ARTS & HUMANITIES

Classical Mythology
Introduction to Art History
Judaism, Christianity and Islam

BUSINESS

Business Computer Applications
Introduction to Accounting I
Introduction to Accounting II
Statistics

MATH & SCIENCE

Animal Productions
Biotechnology: Food, Health, & Environment
Career Opportunities in Biochemistry
College Algebra & Trigonometry
Introductory Astronomy
Earth's Natural Resources Systems
Insect Biology
Engineering Economy I
Elements of Physics
Multimedia Approach to Computing
The Science of Food
Statistics

SOCIAL SCIENCES

Comparative Politics
International Relations
Introduction to Library Research
Introduction to Library Research
Introduction to Psychology
Introduction to Sociology
Principles of Mass Media
Sociology of Crime

**CAREER ACADEMIES
SOUTHEAST COMMUNITY COLLEGE**

SEMESTER 1

BUSINESS

Introduction to Business

EDUCATION

Introduction to Education

HEALTH

Introduction to Medical Health & Terminology
Certified Nursing Assistant C.N.A. (Full Year)

SEMESTER 2

Introduction to Entrepreneurship

Educational Technology

Medical Terminology 2

INDUSTRIAL, MANUFACTURING & ENGINEERING SYSTEMS

Introduction to Energy Operations

COLLEGE TUITION PROGRAM: Cedar Bluffs Public Schools will pay up to \$600 per year of a student's college tuition under the following circumstances:

The student is enrolled in Cedar Bluffs during the entire preceding semester
The college course fits academically into the student's Four-Year Plan
The student is a junior or a senior or has been given administrative permission
Students are expected to perform at a high academic level

Students with a cumulative percent of 77 or above will have his/her college courses paid for prior to the course beginning. Students who receive a failing grade or an incomplete grade will have to reimburse the school 100% of the cost for the tuition.

Cedar Bluffs Public Schools will reimburse students with a cumulative percent of below 77 for the cost of the college tuition once the student has earned a passing grade.

STUDENTS AND PARENTS:

This curriculum handbook has been designed to assist students and parents in making some important education decisions.

This handbook has been developed to provide you with an understanding of the courses and direction in helping plan your course of study. Students and parents should plan together a course of study for your total high school program based upon all factors known that might determine the student's future plans.

REGISTRATION INFORMATION

CLASS MEMBERSHIP:

After admission to high school, the students shall be classified as follows:

Freshman	0 - 60 credits
Sophomore	61 - 120 credits
Junior	121 - 180 credits
Senior	181 and over

GRADUATION REQUIREMENTS:

Graduation from high school will be based on the recommendation of the superintendent, provided the pupil has completed 260 hours of credit work in grades 9 – 12.

Graduating class of 2009, 2010		Beginning with the graduating class of 2011	
English	40 hours (10 English 9) (10 English 10) (10 English 11) (10 English 12)	English	40 hours (10 English 9) (10 English 10) (10 English 11) (10 English 12)
History - Government	40 hours (10 World History) (10 Geography) (10 American History) (10 Govt./Econ.)	History - Government	40 hours (10 World History) (10 Geography) (10 American History) (10 Govt./Econ.)
Mathematics	30 hours (10 Algebra 1)	<u>Mathematics</u>	30 hours (10 Algebra 1) (10 Geometry)
Science	20 hours (10 Biology) (10 Physical Science)	<u>Science</u>	30 hours (10 Biology) (10 Physical Science)
P.E. - Health	20 hours (10 PE 9) (10 PE/Health 10)	P.E. - Health	20 hours (10 PE 9) (10 PE/Health 10)
Computers	20 hours (10 Bus Comp. App. 1) (10 Bus Comp. App. 2)	Computers	20 hours (10 Bus Comp. App. 1) (10 Bus Comp. App. 2)
Fine Arts (Music, Art, Drama)	10 hours	Fine Arts (Music, Art, Drama)	10 hours

COURSE DESCRIPTIONS

BUSINESS

ACCOUNTING I

Accounting I is designed to study fundamental accounting principles. Emphasis is on the maintenance of financial records concerned with business management and operations. This course provides students with instruction in the terminology and concepts of sole proprietorships (one business owner), partnership, and corporations. Double-entry accounting principles and procedures are applied in maintaining business records for both service and merchandising businesses. Students are provided hands-on experiences through completion of packets, which are accounting simulations. Individuals who plan to major in accounting or business administration in college would benefit from this course.

ACCOUNTING II

Accounting II is designed to help students acquire advanced knowledge of concepts, procedures and application. Special emphasis is given to analyzing and interpreting financial information used in making managerial decisions. Accounting simulations (packets) will be used to help students develop an understanding of corporate accounting. Computerized accounting will be introduced. Students will also be made aware of specialized accounting careers.

PERSONAL FINANCE

Personal Finance is designed to assist students in personal finance management skills. Students learn to manage their resources and to make sound personal financial decisions. Units of study include budgeting, credit, insurance, saving and investing, home ownership, banking, taxes, wills and estates. Students have the opportunity to determine how economic factors affect planning and budgeting. Students will also have the opportunity to improve their judgment and abilities in using money, money substitutes, financial institutions, and investing.

BUSINESS & CONSUMER LAW

Business/Consumer Law is designed to present the study of the legal rights and responsibilities necessary to be informed and productive citizens, employees, employers and consumers in the free enterprise system. Unit topics include: Law, Justice & You; Special Laws for Special Groups (minors, families, consumers); Contracts; Credit; Employment (contracts, unions, discrimination, and injuries); Property Laws; Checks & Other Commercial Paper; Protecting Against Loss (insurance – life, home, auto); and Business Organizations. Special activities include a field trip to federal and district court to view actual court proceedings. This course also serves the needs of students who plan to major in business in college.

BUSINESS COMPUTER APPLICATIONS I

Business Computer Applications I is designed to include basic skills in the areas of word processing, database management, spreadsheet, electronic presentation, Internet, electronic communication, desktop publishing and graphics. Students are offered opportunities to identify ethical issues pertaining to information systems and to gather information about careers in technology.

BUSINESS COMPUTER APPLICATIONS II

Business Computer Applications II is designed to assist students in developing proficiency in computer and technology applications. Advanced units of instruction will cover advanced desktop publishing skills, beginning animation, and basic video capturing/editing. Students are also offered opportunities to identify ethical issues pertaining to information systems and to gather information about careers in technology.

BUSINESS TECHNOLOGY & ENTREPRENEURSHIP

Business Technology & Entrepreneurship is designed as a capstone class for students to develop the attitudes, techniques, and skill necessary for success in today's fast-paced business world. The integration of emerging technologies and business principles is incorporated throughout the course. Students are introduced to the rewards and risks of owning or operating a business enterprise. Emphasis is placed on the mastery of skills needed to plan, organize, finance, and manage a small business. Skill development in web page construction will be incorporated as well as advanced animation, and creating web graphics. Students will also take part in an intense employment correspondence unit that include activities such as job shadowing, research, interviewing, and electronic presentations. Students enrolled in this course must have a cumulative GPA of 3.0 or higher.

INTERACTIVE MEDIA & WEB DESIGN

Interactive Media & Web Design is a capstone course for students to apply prior knowledge and skill to create, design, and produce interactive media products and services. The course emphasizes the development of digitally generated or computer-enhanced media. To be enrolled in this course a student must complete an application form including proposed project ideas and have a cumulative GPA of 3.0 or higher.

FINE ARTS

ART I

Art I is a foundations class in which the student will gain the necessary understanding of art concepts, use of various media, tools and equipment for which can be built upon throughout the student's high school career. The students will have experiences in both two and three-dimensional design using various media. Areas that will be covered will be drawing, painting, printmaking, and pottery with both visual and written objectives that will be required to meet.

ART II

Art II is a course designed to further explore the various media and techniques taught in the Art I curriculum. Using the knowledge gained in the Art I class the student will now focus more on developing and fine-tuning their artistic ability. Projects will be required using various media and techniques and the objectives for each project will be more difficult. The introduction of creative problem solving comes into play in this course and the student will have the opportunity to concentrate more on style and individual selection of media. This course will include both visual and written work. In order for a student to take Art II they must have at least a 90% class participation grade in Art I.

ART III

Art III is a continuation of the Art II program. This class is for the student who is interested and is willing to challenge themselves. Students will have more freedom to choose the media that they work, but will still begin the class using criteria and objectives set up by the instructor. A continuation of work through use of various mediums will be combined the elements and principles of design with emphasis on creativity, originality, and production. Written work will also be required throughout the course of the year. In order for a student to take Art III they must have at least a 90% class participation grade in Art II.

ART IV

The Art IV curriculum is designed to allow the advanced students the opportunity to determine their direction of study throughout the course of the year. Students will have the opportunity to explore new avenues in advanced techniques and process as well as concentrate in one specific media area. This class is designed for the disciplined student who is serious about developing their artistic skills on an advanced level. Students must have obtained a minimum grade of 90% in Art III in order to enroll in Art IV.

GRAPHIC DESIGN

The graphic design course at Cedar Bluffs High School is designed in such a way to provide students with experiences that will aid them in gaining an understanding of the professional world of graphic design as well as prepared them to enter a post secondary institution with the tools necessary to pursue an advanced course of study in the area of the graphic arts.

Students will be taught problem solving processes and apply them to projects based on problems a graphic designer may be faced within the professional world. Emphasis of the class is on original work combined with computer knowledge and skills to create and recreate interesting and exciting designs.

PHOTOGRAPHY

This class offers students the opportunity to experience black and white photography from leaning the history of the medium to taking the pictures and developing and printing the photographs. Students will learn how to use a 35-mm camera, mix chemicals for developing, develop film and print photographs. Students will also learn how to artistically compose photographs and not just take "snapshots". The elements of composition and design will be a major part of this section of the class. Students will demonstrate information competency through tests, quizzes, projects and hands-on demonstrations of skill

ADVANCED PHOTOGRAPHY

This class will consist of the student working independently to fulfill a series of advanced assignments in black and white and digital photography. First quarter will be black and white photography and second quarter will be digital photography. All black and white photographs will be mounted for display on cresent board. Portfolios containing all photographs will be turned in and grading will be based on the basis of contrast/color, composition, creativity and cleanliness of the print.

JOURNALISM I - II

The primary goal of this class is to produce the school yearbook. It will also involve writing articles and taking pictures for the school website. It will involve critical and creative thinking skills in evaluation of previous publications and preparations and production of new publications. Responsibilities of students taking this class will be as follows:

- Sell Ads
- Write Copy
- Design Pages
- Meet Deadlines
- Plan and Organize pages and video

Competency in the following software use is required:

- Photoshop CS3
- Adobe in Design
- Microsoft Word
- Microsoft Excel
- Windows Movie Maker
- Windows Photostory

The use of the following equipment will be used and students must pass competency tests related to the equipment:

- Single shot digital cameras
- SLR Digital Camera
- Digital Video Camera

Students must be able to compose and take photojournalistic photographs and download those photos.

This course requires students to work independently and be responsible for the production of an \$8000 final product.

An application must be completed by the student before acceptance will be granted.

BAND

This includes concert, marching and pep band. Involves rehearsal of various band literature and marching skills and occasional public performances. The pep band performs for pep rallies and most home basketball games. The marching band performs for home football games and occasional parades and marching contest. The concert band performs twice a year in a concert and also for music contest in the spring. The requirements are an instrument and reasonable ability to play it. Some expenses include admission to games.

CHORUS

Involves rehearsal in singing and occasional public performances. There are several public concerts a year and a performance for music contest. Opportunities are available for small ensemble and solo experiences. The requirement is that the student must be able to “match pitch”.

FOREIGN LANGUAGE

SPANISH I

Students will comprehend basic structures, expressions, and common vocabulary. This will result in the understanding of most questions, statements, commands, and the gist of everyday conversations. Students will also be able to speak sounds and patterns. Latin American cultures are studied (holidays, foods, literature). The students will experience some of these customs (Don Quixote, plays, Cinco de Mayo, Day of the Dead).

Students will also write in Spanish notebooks, do reports on Spanish holidays, customs, traditions, government, land, education and etc. They will celebrate Day of the Dead and Cinco de Mayo. The students will also attend a Spanish play and have a food day. Sugar skulls, piñatas, mobiles, etc. will also be made.

SPANISH II

Students will comprehend more compound sentence structures, expressions, and vocabulary. Students will be able to translate both reading and speaking more quickly. We will also continue studying Latin American cultures through holidays, literature, and oral reports. “El Cid” is the major piece of literature in Spanish II.

Students will also write in Spanish notebooks, do reports on Spanish holidays, customs, traditions, government, land, education, and etc. They will celebrate Day of the Dead and Cinco do Mayo. The students will also attend a Spanish play, have a food day, and make sugar skulls, piñatas, mobiles, etc.

SPANISH III

Students will comprehend compound sentence structures, sentences, and vocabulary. Students at this level will be required to speak more Spanish in class. At this level there is more of an emphasis on oral communication. Students will continue to learn about Hispanic and Spanish culture. “For Whom the Bell Tolls” is the major piece of literature in Spanish III. These students will also be involved in a program to teach the elementary Spanish. They will also help celebrate the Cinco de Mayo with a project in the elementary. Not only will these students continue to broaden their vocabulary and communication skills, they will be teaching some simple vocabulary also.

INDUSTRIAL TECHNOLOGY

BUILDING CONSTRUCTION AND TRADES

This course will examine the management and the production techniques associated with residential construction projects. Emphasis will be on site preparation and on substructure and superstructure systems. Planning and design of residential structures and calculating price of the building materials will also be covered. The student must be taking or have taken Mechanical Drafting/Woodworking and have received at least a C+ or higher in that class and be either a Junior or Senior.

COMPUTER AIDED DESIGN

Students will learn architectural designs and requirements for completing sets of house plans with the use of Chief Architect software. Students will learn how to read blue prints. They will also learn how to properly design a house. Student will plot their drawings out when finished.

ADVANCED CAD

This course will be an extension of the CAD course and it will be a prerequisite. Students will learn architectural designs and requirements for complete sets of house plans to be completed with the use of AutoCAD. Students will also plot their drawings.

MECHANICAL DRAFTING

This class will be a prerequisite for woodworking. In this class the students will learn how to produce drawings of three-dimensional objects. Students will also learn some engineering by designing and building a bridge from balsa wood. They will also create a detailed drawing of the project they want to build in woodworking class second semester. They will use their project drawing to determine the cost of that project.

WOODWORKING

This course may be taken after a student has passed Mechanical Drafting. This course is designed to teach students how to build a wood project. Emphasis will be placed on safety, use of hand tools, and power equipment. Each student will build a project that was designed by that student in Mechanical Drafting. Each project that is constructed will have to have a set of drawings, a bill of materials, and a plan of procedure. Each student is responsible for purchasing the materials necessary to complete their project.

WOODS II

A student must have taken Mechanical Drafting/Woodworking before being allowed to take this class. This course is designed to give students the opportunity to make a woods project of which they can be proud. Each student will build on the knowledge and skills they learned in Woodworking. The student is responsible for purchasing all of their materials needed to complete their project.

LANGUAGE ARTS

ENGLISH 12

English 12 is a course designed to prepare students for the reading, writing and critical thinking expected of college-bound students. As readers, students will “experience” a variety of classic titles with emphasis on British authors – epic poetry, drama, and short fiction. Students will continue to select reading from a list of approved titles to meet individual reading goals. As writers, students will write paragraphs, essays, poems and other short, creative pieces which complement the literature being studied. Assessment will include projects, portfolios, compositions, self-evaluations, response logs, quizzes and examinations and compositions.

ENGLISH 11

English 11 is a course designed to build on the skills developed in English 10. The ultimate goal of the course is to help students become life-long learners who read and write well. As readers, students will “experience” a variety of popular and classic titles with emphasis on short stories and novels. Reading will be assigned for teacher-directed discussions and activities. Students will select reading from a list of approved titles to meet individual reading goals. As writers, students will write expository paragraphs and essays, persuasive essays, and reading responses. The employment research and communication unit covering technical/business writing, research and oral communication will be a major emphasis of English 11. Additionally, time will be spent taking the Nebraska Standardized Assessment tests, which are required of all students with a junior standing. The ultimate goal of this course is to help students become life-long learners who read and write for a variety of purposes and audiences. Assessment will include projects, portfolios, self-evaluations, response logs, quizzes, examinations, and compositions.

ENGLISH 10

English 10 is a course designed to build on the skills developed in English 9. The ultimate goal of the course is to help students become life-long learners who read and write well. As readers, the students will “experience” a variety of popular and classic titles for teacher-directed discussions/activities and individualized reading goals. As writers, the students will complete reader response logs, expository paragraphs, personal experience essays, and other short, creative pieces (poems, letters), which complement the literature being studied. Assessment will include projects, self-evaluations, portfolios, response logs, quizzes, examinations, and compositions.

ENGLISH 9

English 9 is a course designed to build upon the skills acquired in Junior High English. This class will focus on weekly vocabulary words, daily journal writings, and daily reading time that will allow students to read their favorite genres of literature. The first semester will be geared more towards language skills such as grammar, punctuation, and mechanics. The second semester will be geared more towards literary skills. Freshmen will read dramas, short stories, poems, and novellas. Writing skills will be implemented throughout the entire year.

MATHEMATICS

ALGEBRA I

Algebra I is a first year algebra class covering basic concepts. Topics covered are solving linear and quadratic equations, graphing linear equations, addition, subtraction, multiplication, and division of polynomials, factoring, radicals, and Pythagorean theorem. This class should be taken by ninth graders that have good mathematical knowledge and were successful in junior high math.

ALGEBRA II

Algebra II is the second year of algebra that will extend the concepts and practical applications of algebra. Concepts covered in algebra II will be linear and quadratic equations and inequalities. Other topics covered will be matrices, trigonometric ratios, logarithmic and exponential functions, probability, and statistics.

GEOMETRY

Geometry is a math course that moves away from the traditional numbers and variables of algebra and deals with many different concepts. Some of the concepts covered are congruent and similar triangles, types of lines and angles, arcs, quadrilaterals and other polygons, areas, inequalities, and coordinate geometry. With all these concepts students will be asked to logically arrange these concepts into the form of proofs. Students who have not passed Algebra I will not be able to enter the class. Having taken Algebra II is recommended, but not required.

PRE-CALCULUS

Pre-calculus is a math course that will be an extension of algebra II. The concepts covered will be functions and inverse functions dealing with trigonometry, logarithms, and exponents. Other topics that will be covered are practical applications of probability and statistics, trigonometric identities, series, and sequences of numbers. The use and knowledge of the graphing calculator will be required in this class.

CALCULUS

Calculus will cover more extensive topics that were touched on in precalculus. This course is for anyone wanting to get a head start before going to college. Topics covered will be limits, differentiable functions, and integration. These topics will also be used to solve problems involving area, surface area, volumes, and rates of change.

PHYSICAL EDUCATION

NINTH GRADE PHYSICAL EDUCATION

This class will build on the foundation of physical, mental, and social development formed in the junior high classes. Team sports will again be used to aid in increasing the level of proficiency in skills and mental awareness of the individual. The material presented will be more in depth and will view the activities from a higher level perspective. The conditioning, flexibility, strength, agility, coordination and mental development will be more demanding than the junior high classes. There will be written and oral demonstrations of student mastery of the material presented. Quizzes, unit tests, semester tests and other various projects will be used as vehicles of student ability demonstration. Evaluations will be made from physical, mental, and social data observed and recorded by the instructor. Class participation will be required in all aspects of class activities in order to successfully complete the course. Students must be able to demonstrate that they can work cooperatively, independently, and in a socially acceptable manner at all times during class. The student will always be held accountable for their performance.

TENTH GRADE PHYSICAL EDUCATION/HEALTH

This class will combine elements of physical education activities with the presentation of a curriculum designed to enhance the student's awareness and knowledge of health issues. Team sports and individual activities may be used in the physical development of the students. Evaluations will consider physical demonstrations of ability as well as written and oral feedback. Quizzes, tests, individual and group student development. Current issues in the world society will provide a base for class discussions and activities. The objective for this class is to help the student develop an understanding of and to incorporate healthy living concepts into their lives and the decisions that they make concerning their health. Participation is required in order to successfully complete this class.

WEIGHTLIFTING

This class is designed to help the student develop a high degree of physical fitness, and aid in the development of strength, agility, coordination, speed, balance and power necessary to successfully perform in team sports and individual activities. This will be done through lifting activities. Other areas covered will be the history, the benefits, and the careers in weight training. The prevention of weight training injuries along with the harmful effects of steroid use will also be studied. Students will also be required to do research papers on selected topics.

SCIENCE

PHYSICAL SCIENCE

Physical Science is the study of matter and energy. This course looks at the topics of metals, force, simple machines, electricity, and energy. These topics require a student to have a good science background. This course will give students an insight into chemistry and physics.

BIOLOGY

Biology is the study of life. This course follows a phylogenetic approach in its organization. This approach allows for explanation of the diversity of life forms while revealing their relationships and fundamental unity in form and function. Topics of interest are ecology, human genetics, unity within diversity, evolution, energy, homeostasis, and systems and interactions.

CHEMISTRY

This course is designed for upper level Juniors and Seniors. Students must exhibit a good understanding of scientific principles and have a strong background in math. This course will focus on principles of structure, matter-energy relationships, thermodynamics, and chemical equilibrium. The purpose of this course is to allow the student to foster understanding and develop the ability to predict behavior of substances under various conditions. Must have completed Algebra I with at least a C.

ANATOMY

In this course you will learn about cells and tissues first and then move into bones and muscle function, structure, and location. The nervous system, digestive system, respiratory system, and circulatory system are broken down into major organs and studied. The skin, temperature, metabolism and excretion are covered in four separate chapters. Following this, is a study of the endocrine system, which covers the production of hormones by various glands. Lastly is a study of reproduction and heredity.

The class is very informative and interesting to those who like biology and are interested in how the human body works. To enroll the student must have passed biology with a grade of C or better. Physiology preparation requires a lot of study with terminology and location of various tissues on diagrams. Tests are representative of terms and identification of tissue or organ function.

ASTRONOMY

Astronomy is the study of the moon, stars and other objects in space. In this course students will explore our own moon, the solar system and our galaxy. Students will also learn about other galaxies in the universe as well as comets, meteors and asteroids. In addition students will learn about the technology of space explorations, from telescopes to rockets and satellites. Through the study of black holes, dark matter and more students will learn that our world is even stranger than science fiction.

ENVIRONMENTAL SCIENCE

Environmental science is the study of the environment, how it works and our place in it. This class will focus intently on a few environmental topics and examine them in depth. Topics include energy, pollution and use of natural resources. Have you ever wanted to make your own biofuel? This is the class for you! The course offers a timely look at some of the most important topics of our time.

SOCIAL STUDIES

AMERICAN GOVERNMENT/ECONOMICS

This is a required course offered to twelfth graders. Students in Government will be able to relate democratic theory and political process in the United States. Students in Economics will be able to make reasoned judgments about both personal economic questions and broader questions of economic policy in a complex and changing world.

AMERICAN HISTORY SINCE 1890

This is a required course offered to eleventh graders. Students in American History Since 1877 will analyze the impact of and relationships among events in United States history from 1890 to the Modern Era.

GEOGRAPHY

This is a required course offered to tenth graders. Students in Geography will demonstrate knowledge of the five themes of geography by comparing various continents, nations and cultures.

WORLD HISTORY SINCE 1000 AD

This is a required course offered to ninth graders. Students in World History Since 1000 AD will examine major world cultures and events from 1000 AD to the Modern Era.

PSYCHOLOGY

Psychology is an elective one-semester course, which focuses upon various aspects of human life. Human development, heredity and environment, behavior and affects upon it, personality, intellectual ability, and learning & memory are the major topics covered in this course. Students will also become well acquainted with current literature in regard to the field of psychology. This class is available to Juniors and Seniors.

INDEPENDENT STUDY COURSE DESCRIPTIONS (UNIVERSITY OF NEBRASKA AT LINCOLN)

ADVANCED PLACEMENT COURSES

The College Board Advanced Placement® Program enables students to pursue college level studies while still in high school. **Based on student performance on rigorous AP exams, students can earn credit, advanced placement, or both for college.**

ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION 1

This course provides an in-depth exploration of English and American literature. Poetry, short stories, drama, novels, and literary essays are analyzed. In addition to discussing works from each of these literary genres, the course concentrates on helping students to form their own interpretations of literary works. Advanced Placement Literature and Composition 1 is the first course in a two-course sequence designed to prepare students for the College Board Advanced Placement English Literature and Composition Examination. Accordingly, the written projects in the course emphasize the analysis of literary excerpts, and the course devotes much time to the use and interpretation of literary devices. While this course helps prepare students for the College Board Examination, this examination is NOT required for completion of Advanced Placement Literature and Composition 1. This course has been authorized by College Board. Purchase of the course Syllabus (print or CD) is recommended for study beyond course completion.

ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION 2

Advanced Placement English Literature and Composition 2 is the second course in a two-course sequence designed to prepare students for the College Board Advanced Placement English Literature and Composition Examination. The course emphasizes writing and literary analysis, teaching students to express their interpretations in written form. Poetry, short stories, novels, drama, and expository prose are covered. In addition to the graded assignments, the course includes many non-graded activities that will prepare students for the College Board examination, including a practice test that will let students practice testing in a timed environment. Although Advanced Placement English Literature and Composition 2 prepares students for the College Board examination, students ARE NOT required to complete this examination to receive credit for the course. This course has been authorized by College Board. Purchase of the course Syllabus (print or CD) is recommended for study beyond course completion.

Advanced Placement U.S. History 1

This course is designed to help prepare students for the College Board Advanced Placement United States History Examination. The written projects emphasize historic essays and document-based questions. Each lesson contains three self-check tests that allow the student to test his or her objective knowledge as well as develop analytical skills and writing abilities. Also, the course includes a comprehensive review lesson and gives the student much experience in working with primary source documents. The course explores the social, political and economic development of the United States from the Colonial Era until 1877. The student will study European colonization, the American Revolution, the formation of the American political system, agricultural and industrial trends, westward expansion, social conditions and the mounting differences between the northern and southern regions of the country. The course discusses the Civil War and concludes with a survey of the Reconstruction process through which the southern states were readmitted to the Union. This course has been authorized by College Board. Purchase of the course Syllabus (print or CD) is recommended for study beyond course completion.

Advanced Placement U.S. History 2

This course is designed to help prepare students for the College Board Advanced Placement United States History Examination. The written projects emphasize historic essays and document-based questions. Each lesson contains three self-check tests that allow the student to test his or her objective knowledge as well as develop analytical skills and writing abilities. Also, the course includes a comprehensive review lesson and gives the student much experience in working with primary source documents. Because AP History 1 and AP History 2 are a two-course sequence, AP History 2 will provide students with copies of the 2001 AP United States History Examination. This examination covers American history from the colonial era until the present. Although the 2001 AP United States History Examination will not affect the student's grade in this course, students will be able to use the examination as a review. AP History 2 explores the social, political and economic development of the United States from the late 1800s until today. The student will study the development of the American market economy, urban growth, progressive reform, the Great Depression, the New Deal programs, the relationship between government and private business, civil rights issues, cultural diversity and American foreign relations. This course has been authorized by College Board. Purchase of the course Syllabus (print or CD) is recommended for study beyond course completion.

SCIENCE

PHYSICS 1

Physics represents a continuing effort to solve problems, answer questions and interpret experience in a logical way. This course encourages students to observe physics principles in their daily lives. The students read about and then, through activities, investigate the physical phenomena related to straight line motion, motion in two dimensions, energy, relativity, properties of matter, change of state, heat and temperature.

Please note: To complete this course entirely online (without Mail Processing), students will need access to a scanner. Specific instructions on how to submit projects electronically are given in the online course management system.

Prerequisites: one year each of algebra and geometry

PHYSICS 2

In this course, students continue to solve problems, answer questions and interpret day-to-day experiences in a logical way. They read about and then, through activities, investigate the physical phenomena related to wave motion, sound, light, reflection and refraction, color, magnetism, electricity and nuclear physics. Please note: To complete this course entirely online (without Mail Processing), students will need access to a scanner. Specific instructions on how to submit projects electronically are given in the online course management system.

Prerequisites: Physics 1