

## **BUSINESS/COMPUTERS**

### **INFORMATION TECHNOLOGY APPLICATIONS 1 & 2**

*Grade: 9*

*Prerequisite: None*

These classes (one semester each) are designed to include basic skills in the areas of word processing, database management, spreadsheets, electronic presentations, and the Internet. Students are offered opportunities to identify ethical issues pertaining to information systems and to gather information about careers.

### **ACCOUNTING I\***

*Grade: 11-12*

*Prerequisite: None*

This class covers fundamental accounting principles. Emphasis is placed on the maintenance of financial records concerned with business management and operations.

*\*Tech Prep college credit will be awarded to students who earn a B average or better.*

### **ACCOUNTING II\***

*Grade: 12*

*Prerequisite: Accounting I*

This class will help students acquire advanced knowledge of accounting concepts, procedures and applications. Special emphasis is given to analyzing and interpreting the financial information used in making managerial decisions.

*\*Tech Prep college credit will be awarded to students who earn a B average or better.*

### **PERSONAL FINANCE**

*Grade: 10-12*

*Prerequisite: None*

This class will help students understand economic principles as applied to current events and issues. Topics include banking and financial services, budgeting and financial management, consumer management, credit management, ethics, information technology, personal decision management, risk management, saving and investing, and taxes.

### **BUSINESS MATH**

*Grade: 11-12*

**Prerequisite: ?????**

This class is designed to provide students with a comprehensive review of basic mathematical skills. Students apply math concepts to realistic business and money management situations.

## **BUSINESS COMMUNICATION (YEARBOOK)**

Grade: 10-12

Students will develop and refine their job-related communication skills — reading, writing/composition, listening, speaking, and problem solving — in a way that prepares them for the workplace. In addition, students will learn writing and graphic design skills as they create the school's yearbook. Students will need to work independently and with a team.

## **ENGLISH**

### **ENGLISH I**

*Grade: 9*

*Prerequisite: None*

English I is designed for freshmen students. In this class, the teacher will cover different categories of literature, including the novel, short stories, drama, and poetry. Students learn to identify plot, setting, theme, character, and point of view.

New vocabulary will be presented throughout the year, and the student will learn the elements of writing mechanics, including grammar, punctuation, sentence structure, and more. Students will be required to complete writing projects using the Six Traits of Writing. Teamwork, group work, and oral presentations are integral to the English I curriculum.

### **ENGLISH II**

*Grade: 10*

*Prerequisite: English I*

English II is designed for sophomore students. In this class, students will read and analyze American and World literature covering numerous themes in novels, poetry, and non-fiction so they may continue their identification of plot, setting, theme, character, and point of view.

New vocabulary will be presented throughout the year, and the student will learn the elements of writing mechanics, including grammar, punctuation, sentence structure, and more.

Students will be required to complete writing projects using the Six Traits of Writing. Students will learn about persuasive, descriptive, informative, expository, narrative, and comparison composition. Creative writing will be the focus of a second-semester project.

Teamwork, group work, and oral presentations are integral to this class.

## **LANGUAGE ARTS**

*Grade: 11-12*

*Prerequisite: English I and English II*

Language Arts is designed for junior students, but seniors may opt in. The class focus is publishing the monthly student newspaper, *The Tiger Times*. Students will learn layout and design techniques of a newspaper and work with a commitment of meeting deadlines.

Multiple styles of writing will be developed using the 6 Traits of Writing: news articles, feature writing, ad writing, essays, persuasive, and informative styles.

Vocabulary and writing conventions will be included in the curriculum. Students will review material for and complete the state assessment tests.

## **SPEECH**

*Grades: 9 – 12*

*Prerequisite: None*

Speech class is designed to offer students the opportunity to develop effective speaking and listening skills through the study of the elements of communications, interpersonal and group communication, public speaking, and the performing arts.

As an integral part of this class, students will be encouraged to participate in speech competition. In the spring, students will be expected to support the production of the junior/senior class play as part of the performing arts module.

Teamwork exercises, role plays, oral presentations, extemporaneous speaking, drama readings, and extensive public speaking opportunities are all core elements of this class.

## **COLLEGE PREP LITERATURE**

*Grade: 12*

*Prerequisite: English I, English II, and Language Arts*

*Materials: College writing book (cost to be determined annually)*

This class is highly recommended for seniors who plan to attend college in either a two- or four-year program. The foundation for reading will include classic English literature, drama, multicultural, and non-fiction selections from novels, short stories, anthologies, newspapers, and trade magazines. Students will fully analyze components of these readings.

Multiple styles of writing, utilizing the Six Traits of Writing, will be required with persuasive,

informative, comparative, expository, definition, and descriptive writing styles. At the end of the year, job interviewing and resume writing will be addressed.

A research term paper will be the focus of the second semester. New vocabulary will be presented throughout the year. Teamwork, group work, and oral presentations are main components of this class.

## **CREATIVE WRITING**

Grade:

Prerequisite:

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## **Math**

### **Pre-Algebra**

*Grade: 9*

*Prerequisite: none*

Setup and topics covered are very similar to eighth grade math. We use the SAXON ALGEBRA 1/2 textbook. The main goal is to automate upper-level arithmetic skills, while presenting more abstract concepts as preparation for Algebra I and vocational math courses. Homework is assigned daily.

### **ALGEBRA I**

*Grades: 9-11*

*Prerequisites: Placement by past performance in math classes (generally a grade of C or better in Math 8 is required) or by teacher recommendation.*

*Materials: Scientific calculator that will calculate fractions. (The school office has calculators for sale.)*

Homework is assigned daily. Each homework assignment is practice for a test. Each homework assignment is worth 10 points. The answers are available to the students to check their own work. Quizzes and tests are given approximately every two weeks. Quarter grades are determined: Homework 15%, quizzes 5% and tests 80%. If a student scores below 70% on a test. The student may take a make-up test within a specified time.

Algebra I meets one of the three years of mathematics required by most colleges.

### **ALGEBRA II**

*Grades: 10- 12*

*Prerequisite: Algebra I*

*Materials: Scientific calculator that will calculate fractions. (The school office has calculators for sale)*

Homework is assigned daily. Algebra II requires much more homework done outside of class than Algebra I. The grading is the same as Algebra I.

Algebra II will meet one of the three years of mathematics required by most colleges.

## **APPLIED MATH**

*Prerequisite: Pre-Algebra, Algebra 1*

*Grade: 11-12*

This course is designed for students interested in a vocational-technical career. Units augment vocational studies in health occupations, home economics, industrial technology, business and marketing, and agriculture/agribusiness. Topics include linear equations, non-linear equations, statistics, probability, trigonometry, and basic geometry.

## **APPLIED GEOMETRY**

*Grade: 10-12*

*Prerequisite: Algebra 1*

## **GEOMETRY**

*Grade: 10*

*Prerequisite: Algebra I*

*Materials: Scientific calculator that will calculate fractions, 3" protractor, compass, 12 in/30 cm ruler. (The school office has calculators and rulers for sale.)*

Description? Homework is assigned daily. Geometry will meet one of the three of mathematics required by most colleges.

## **DISCRETE MATH**

*Grade: 12*

*Prerequisite: Algebra II and Geometry*

*Materials: Graphing calculator. (These may be checked out from the school. Students will be responsible for paying for lost or damaged calculators.)*

Homework is assigned daily. This class is designed for the student whose college plans do not include calculus. Discrete Math will meet the fourth year of mathematics required by some colleges.

## **PRE-CALCULUS**

*Grade: 12*

*Prerequisite: Algebra II and Geometry*

*Materials: Graphing calculator. (These may be checked out from the school. Students will be responsible for paying for lost or damaged calculators.)*

Homework is assigned daily. Pre-Calculus requires much more time outside of class for homework and reviewing than previous math classes. This class is designed for the student whose college plans include calculus.

Pre-Calculus will meet the fourth year of mathematics required by some colleges.

## **COLLEGE ALGEBRA**

*Grade: 12*

*Prerequisite: Algebra II and Geometry with a B or better*

### **One-semester course**

College Algebra is intended for those students who will need a college algebra course for their college major. In addition to earning high school credit, students will also receive three college credits from Peru State College. The course includes the following topics: set notation, radicals, factoring, linear equations and inequalities, absolute value equations and inequalities, complex number operations, solving and graphing quadratic equations and inequalities, symmetry of graphs, solving polynomials and graphing polynomials, transformations of graphs, exponential functions and logarithmic functions.

## **COLLEGE STATISTICS**

*Grade: 12*

*Prerequisite: Algebra II and Geometry with a B or better*

### **One-semester course**

College Statistics is intended for those students who will need a statistics class for their college major. In addition to earning high school credit, students will also receive three college credits from Peru State College. The course includes the following topics: gathering data through experiments and surveys, sampling, graphing data in a box plot, stem and leaf plot, normal distribution, correlation, consumer price index and other government statistics, regression lines, probability, simulations, confidence intervals, tests of significance, statistical inference, and the Chi-Square test.

## **SCIENCE**

### **PHYSICAL SCIENCE**

*Grade: 9*

*Prerequisite: None*

The study of matter and energy and the relationships they have with each other. Lab work, group work, and special projects will be included. Students are required to apply the scientific method as they complete a science project.

## **BIOLOGY**

*Grade: 10*

*Prerequisite: Physical Science*

Biology is the study of living organisms and the way they interact with each other and their various environments. The course also includes the study of cells, genetics, and the anatomy/physiology of invertebrate and vertebrate animals as well as a general study of plants. Lab work in this class will include dissection as well as other experiments. Students are required to apply the scientific method as they complete a science project.

## **CHEMISTRY**

*Grades: 11-12*

*Prerequisites: Physical Science, Biology, and Algebra 1*

*(Algebra 2 is suggested)*

This course includes the study of the structure and properties of matter. Specific topics include classification of matter, atomic theory, electron shells, writing and balancing chemical formulas, the mole as a quantity of measurement and chemical reactions. The periodic table and the factor-label method of problem solving will be used. Lab work and lab writing are included. Students are required to apply the scientific method as they complete a science project.

## **ANATOMY & PHYSIOLOGY**

*Grade: 12*

*Prerequisite: Physical Science and Biology*

This class includes the general study of anatomical structure and function of the human body systems including the skin, bones, and muscles, and the cardiovascular and endocrine systems. Students are required to apply the scientific method as they complete a science project.

## **PHYSICS**

*Grade: 11 - 12*

*Prerequisite: Algebra II and Geometry*

*Materials: Scientific calculator that will calculate fractions. (The school office has calculators for sale.)*

Physics is the science that studies the nature of matter and energy and their relationships. These relationships are described mathematically.

## **PLANT SCIENCE**

GRADE: 10-12

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## **Animal Biology**

Grade: 10-12

?????????

## **SOCIAL STUDIES**

### **WORLD GEOGRAPHY**

*Grade: 9-12*

*Prerequisite: None*

Students will study physical and human geography. Physical geography is the study of land, climate, and vegetation, and human geography is the study of the people, religions, and cities around the world.

### **WORLD HISTORY**

*Grade: 10*

*Prerequisite: None*

This class is offered to all sophomores and consists primarily of lecture involving World History. Videos and joint learning activities are also used to support material.

### **AMERICAN HISTORY**

*Grade: 11*

*Prerequisite: None*

This class is offered to juniors and consists of a combination of lecture and student presentations. The course covers history from the Civil War through present day. Each student is also required to participate in County Government Day in Albion.

## **AMERICAN GOVERNMENT**

*Grade: 12*

*Prerequisite: None*

This course will introduce students to the U.S. Constitution, the formation of political parties, and voting procedures and behavior. This class gives students an overview of how our government works.

## **PSYCHOLOGY**

*Grade: 11-12*

*Prerequisites: None*

This course examines human behavior, growth and development, social behavior, personality, and abnormal behaviors. A major research paper is required each semester. Class discussion and participation are an important part of this course.

## **SOCIOLOGY**

*Grade: 11-12*

*Prerequisites: None*

This course explores the behaviors of people as individuals and in groups. Units covered include culture and social structure, social inequality, social institutions and future social changes. Students are required to do a major research project or book report each semester. Class discussion and participation are an important part of this course.

## **FAMILY AND CONSUMER SCIENCES**

### **ADULT LIVING (Distance Learning)**

*Grade: 11-12*

*Prerequisite: None*

This class helps students prepare to apply for a job, find a place to live, finance a car, budget for monthly expenses, prepare food, manage money and deal with crisis situations. Topics of discussion also include pregnancy and family life.

### **FOODS (DISTANCE LEARNING)**

*Grade: 10-12*

Need description.

### **PARENTING (DISTANCE LEARNING)**

Grade: 10-12  
One-semester course

Description?

## **PHYSICAL EDUCATION**

### **PHYSICAL EDUCATION I**

Grade: 9  
Prerequisite: None

Physical Education I is a class that offers students an opportunity to gain knowledge about activities and get some exercise. Some of the activities include croquet, golf, tennis, soccer, volleyball, flag football, horseshoes, archery, basketball, table tennis, badminton, and softball.

### **LIFETIME FITNESS**

Grade: 11 – 12  
Prerequisite: Physical Education I

Physical Education II gives students a chance to learn more about the many activities that were introduced in Physical Education I. Activities include personal fitness, croquet, golf, tennis, soccer, sand volleyball, court volleyball, flag football, horseshoes, frisbee, archery, basketball, scooter hockey, pillow polo, badminton, floor hockey, scooter basketball, table tennis, whiffleball, field dodgeball, speedball, softball, gymnastics, mass games, and aerobics.

## **AGRICULTURE**

### **AGRICULTURE I\* (Introduction to Agriculture)**

Grade: 9-10

Prerequisite: None

This year-long course is for freshmen or sophomores taking agriculture for the first time. Nebraska's crop and livestock industries are explored while students learn about the role agriculture plays in today's society. The FFA organization is introduced along with the many opportunities it offers in leadership and entrepreneurship. Each member will be required to select a Supervised Agricultural Experience program which becomes their basis for keeping records and earning awards. Farm safety and the livestock industry are covered with emphasis on breeds, selection, nutrition, and health. Shop time will be allowed for tool identification and repair.

*\*Tech Prep college credit will be awarded to students who earn a B average or better.*

### **AGRICULTURE II\* (Plant Science)**

Grade: 10-11

Prerequisite: Agriculture I

This course emphasizes plant and soil sciences. Properties of soils, erosion, conservation practices and land management are covered. Supervised Agricultural Experience programs are analyzed and records are updated at the end of the year. All students will apply for a Proficiency Award in their selected areas. Plant classification, plant part functions, photosynthesis, respiration and transpiration are covered. Students will analyze fertilizers and chemicals used in crop production. They will also compute per-acre crop production costs. Shop time will be allowed for welding instruction.

*\*Tech Prep college credit will be awarded to students who earn a B average or better.*

### **AGRICULTURE III\* (Applied Animal Science)**

Grade 11-12

Prerequisite: Ag I and Ag II

Range and pasture plants will be identified. Range condition is analyzed by size and species of plants present. Students will compute proper stocking rate of pastures. Salesmanship looks at differing customer personalities, proper steps in making a sale, and advertising media comparisons. Each student will make a sales presentation for an ag-related product.

Supervised Agricultural Experience records are updated at the end of the year. All students will apply for a Proficiency Award in their selected areas. Livestock health, management, practices, and genetics are covered. Biotechnology and E.P.D. are introduced. Shop time will be allowed for wood or welding projects.

*\*Tech Prep college credit will be awarded to students who earn a B average or better.*

## **AGRICULTURE IV\* (Farm Business Management)**

Grade: 12

Prerequisites: Ag I, Ag II, and Ag III

Resumes are prepared for award and scholarship applications. Commodity futures and options trading are discussed with farm applications. Students will close out S.A.E. scores and apply for Proficiency Awards and the State FFA Degree (if eligible). Students will prepare balance sheets, income statements and cash flow projections for a given farm. They will also will learn to prepare partial budgets. Students will be allowed some shop time to build/repair tools or equipment or complete independent study in a selected area.

*\*Tech Prep college credit will be awarded to students who earn a B average or better.*

## **PRINCIPLES OF TECHNOLOGY**

Grade: 11-12

Prerequisite:

??????????

FOREIGN LANGUAGE

FOREIGN LANGUAGE

**SPANISH I**

Grade: 10-12

Prerequisite: None

Student will learn basic vocabulary and structure of the Spanish language. The four areas of communication (speaking, listening, reading and writing) are emphasized. Hispanic culture, traditions and history are also studied.

Students participate each day in paired, group, and whole-class activities. Daily assignments include study of vocabulary and structural items, written assignments, and reading assignments. Students will complete lesson quizzes testing competency in structure, vocabulary, listening, reading and writing. Oral competency is evaluated during class and may include answering of questions, oral reading or presentation of dialog.

Areas of focus include nouns, adjectives, verbs, pronouns and interrogatives.

## **SPANISH II**

Grade: 11-12

Prerequisite: Spanish I

This class builds on the skills learned in Spanish I. The four areas of communication are emphasized. Assignments and test requirements are similar. Reading and writing requirements are expanded. Areas of focus include stem-changing and reflexive verbs, object pronouns, imperfect and future verb tenses, and command forms.

## **INDUSTRIAL TECHNOLOGY**

### **CAD\***

Grade: 10 - 12

Prerequisite: None

Semester-long class

The student will focus on using the computer to generate technical drawings.

*\*Tech Prep college credit will be awarded to students who earn a B average or better.*

### **WELDING\***

Grade: 10 - 12

Prerequisite: None

Semester-long class

Students will learn to weld with the oxy-acetylene torch, arc welding, mig and tig welders, along with torch and plasma cutting.

*\*Tech Prep college credit will be awarded to students who earn a B average or better.*

## **VISUAL & PERFORMING ARTS**

### **ART I**

**Grade: ??**

Prerequisite: None

This course emphasizes drawing/composition skills. Other topics include ceramics, copper tooling, papier-mâché and other craft activities.

### **ART II**

**Grade: ?**

Prerequisite: Art I

This class builds on drawing skills covered in Art 1. Students will create artwork with various media including pencil, charcoal, pen/ink and paint.

### **CHORUS**

Grade: 9-12

Prerequisite: ??

Students will learn to sing on pitch and in part while singing many styles of music. The Chorus will perform at the Christmas and spring concert. Students will also participate in the choral clinic at Albion and the spring music contest.

### **BAND**

Grade: 7-12

Prerequisites: Must have completed second level lesson book. Know the Bb Concert Scale and Chromatic Scale

Band students will be expected to perform with the pep band at school events. Concert Band will practice for the Christmas Program and Spring Concert. The band participates at the Conference and District Music Contests.

## **Art Appreciation**

**Grades: 9-12**

**Prerequisite: None**

The class includes a study of art history including the various artistic periods and famous artists. Students will create art projects using a variety of media.

## **Music Appriciation**

**Grades: 9-12**

**Prerequisite: None**

This is an exploratory class that will encompass several aspects of music including how and why it is created, how it has evolved, and what may come in the future. The course will cover music history from Gregorian chant to 20<sup>th</sup> century music. There will be listening days throughout the course in which students can share their school-appropriate music with the class. There also may be opportunities for students to attend live musical performances.