

2008-09

REGISTRATION HANDBOOK

BROKEN BOW HIGH SCHOOL



Broken Bow High School

323 North 7th

Broken Bow, NE 68822

Ken Kujath, Principal

Darin Nichols, Asst. Principal/AD

Linda Bosshamer, Counselor

TABLE OF CONTENTS

COURSE REQUIREMENTS

Freshman Year
Sophomore Year
Junior Year
Senior Year

COURSE DESCRIPTIONS

Business
Fine Arts
Foreign Language
Computer Science
Industrial Technology
Language Arts
Mathematics
Physical Education
Science
Social Studies
Agricultural Education
Teacher's Aide
Dual Credit Information
Course Substitution Information

Course Registration Forms

FRESHMAN REQUIRED COURSES

- *English - choose one*
English I
Vocational English I *by permission only*
(*this course is not accepted as meeting the English requirement for UNL*)
 - *Mathematics - choose one*
Pre-Algebra Algebra I Algebra IA/IB
Geometry
 - American Studies I
 - Earth Science
 - Physical Ed. /Health
You must take PE/Health sometime.
Most students take it as a freshman
 - * Computer Applications I (sem)
 - * Speech Communications (sem)
- * Most students take them during their freshman year.*

FRESHMAN ELECTIVES

- Spanish I
(If you got less than a C in any semester of English 8, you cannot take Spanish until you are at least a sophomore)
- Art I
- Choir
- Band
- Percussion (*for current percussionists only*)
- Intro to Ag Science/Technology
- Woods/Crafts (all year, or semester)

SOPHOMORE REQUIRED COURSES

- *English - choose one*
English II
Vocational English II *by permission only*
(*this course is not accepted as meeting the English requirement for UNL*)
 - *Mathematics - choose one***
Consumer Math Algebra I
Geometry Algebra IA/IB
Algebra II
 - American Studies II
 - Biology
 - Consumer Education (sem)
- * Speech Communications (sem)
- * Computer Applications I (sem)

**If you took these as a freshman, you have fulfilled this requirement. If not, you should take them as a sophomore.*

* Physical Ed. & Health

Did you take PE/Health as a freshman? If not, you should take them as a sophomore..

SOPHOMORE ELECTIVES

- Annual *restrictions apply*
- Journalism *restrictions apply*
- Accounting I
- Entrepreneurship (sem)
- Intro. To Business (sem)
- Spanish I *If you got less than a C any semester of English I, you should not take Spanish until your junior year.)*
- Spanish II *If you got an F in the second semester of Spanish I you cannot take Spanish II. If you had a D, you probably shouldn't take Spanish II.*
- Art I
- Art II
- Choir
- Computer Applications II
- Band
- Percussion
- Girls Fitness and Wellness
- Weight Training (by permission only)
- Building Construction
- Woods/Crafts (semester or all year)
- Woods/Crafts II
- Intro to Ag Science/Technology
- Animal Science (sem) *E.O. Year 2009-10 & 2011-12*
- Companion Animal Care *E.O. Year 2008-09 & 10-11*
- Natural Resources & Wildlife Mngmnt (2nd sem)
- Landscaping/Nursery Mngmnt (sem)
- Adv. Landscaping (sem) *E.O. Year 2008-09 & 10-11*
- Floriculture/Greenhs (sem) *E.O. Year 2009-10 & 11-12*
- **A student may take Algebra II and Geometry at the same time in order to complete Calculus as a senior (by permission only)*

JUNIOR REQUIRED COURSES

- **English** - Juniors must take Grammar and Literature
In your junior and senior year, you must take at least four semesters of English classes, including Grammar, at least one writing course, and at least one literature course. All the junior/senior English courses are one-semester courses.

Grammar (sem) *required*

or Vocational Grammar (sem)

British Literature (sem)

Shakespeare (sem)

Classical Literature (sem)

American Literature (sem)

Sports Literature (sem)

Short Stories (sem)

- **Social Studies** - *Jr.-Sr. Social Studies requires 4 semester classes. Political Behavior (Sr.), and three semesters from the following: Psychology, Sociology, Business Law, Accounting I, Entrepreneurship, World History, Geography, or Modern Problems*

- **Mathematics** - *All students take three years of math.*

Geometry Algebra IA/IB Algebra II

Consumer Math Pre-Calculus

Statistics

JUNIOR ELECTIVES

Annual *restrictions apply*

Journalism *restrictions apply*

Advanced Biology

Chemistry *prereq*

Computer Applications II

Accounting I, Accounting II *prereq*

Personal Finance

Intro. To Business (sem.)

Entrepreneurship

Teacher Aide by permission only

Spanish I, Spanish II, Spanish III

Art I, Art II, Art III(sem), Graphic Design(sem)

Choir, Band, Percussion,

Girl's Fitness and Wellness

Weight Training, Activities For Life

Advanced Woods

Woods II

Woods/Crafts (semester or all year)

Architectural Drawing, Auto CAD

Mecha-tronics

Leadership/Personal Development (sem)

Intro to Ag Science/Technology

Animal Science (sem) *Every Other Year 2009-10 & 11-12*

Companion Animal (sem) *E.O.Year 2008-09 & 10-11*

Power Machinery *E.O.Year 2009-10 & 11-12*

Adv. Power Machinery.*E.O. Year 2009-10 & 11-12*

Natural Resources & Wildlife Management

Metals/Welding (sem) *E.O. Year 2008-09 & 10-11*

Adv Metals/Weld (sem)*E.O.Year 2008-09 & 10-11*

Ag Business Management (sem) *prereq*

Every Other Year 2008-09 & 10-11

Ag Finance & Marketing (sem) *Every Other Year 2009-10 & 11-12*

Landscaping/Nursery Mngmnt (sem)

Adv. Landscaping, Nursery, Gardening *Every Other Year 2008-09 & 10-11*

Floriculture & Greenhouse Mngmt (*Every Other Year 2009-10 & 11-12*)

World History

SENIOR REQUIRED COURSES

• **English** Seniors must take a writing class. In your junior and senior year, you must take at least four semesters of English classes, including Grammar, and at least one literature course.

All the junior/senior English courses are one-semester courses.

College Composition (sem) by permission

Research Writing (sem)

Technical Writing (sem)

Shakespeare (sem)

Classical Literature (sem)

American Literature (sem)

Sports Literature (sem)

Short Stories (sem)

British Literature (sem)

• **Mathematics** - You may have already met the three-year math requirement. If not, you may choose from the following.

College bound students should take a math class!

Geometry Algebra II

Pre-Calculus Calculus

Statistics Consumer Math

• **Social Studies –Seniors must take Political Behavior.** Jr.-Sr. Social Studies requires 4 semester classes. **Political Behavior (Sr.)**, and three semesters from the following: Psychology, Sociology, Business Law, Accounting I, Entrepreneurship, World History, Geography, or Modern Problems.

SENIOR ELECTIVES

Annual restrictions apply

Journalism restrictions apply

Advanced Biology

Chemistry *prereq*

Physics *prereq*

Anatomy *prereq*

Mech-tronics

Computer Applications II *prereq*

Accounting I, Accounting II *prereq*

Intro. To Business (sem)

Personal Finance

Entrepreneurship

Spanish I

Spanish II

Spanish III, Spanish IV

Art I, Art II, Art III, (sem), Graphic Design (sem),

Art IV (sem), Art Appreciation (sem)

Band, Choir, Percussion,

Weight Training, Activities for Life

Girl's Fitness and Wellness

Woods II

Advanced Woods

Woods/Crafts (Sem. or all Year)

Architectural Drawing, Auto CAD

Teacher's Aide Permission Only

Animal Science (sem) *E.O. Year 20 09-10 & 11-12*

Leadership/Personal Development (sem)

Intro to Ag Science/Technology

Companion Animal (sem) *E.O. Year 20 08-09 & 10-11*

Power Machinery *E.O. Year 2009-10 & 11-12*

Adv. Power Machinery. *E.O. Year 2009-10 & 11-12*

Natural Resources & Wildlife Management

Metals/Welding (sem) *E.O. Year 2008-09 & 10-11*

Adv Metals/Weld (sem) *E.O. Year 2008-09 & 10-11*

Ag Business Management (sem) *prereq*

Every Other Year 2008-09 & 10-11

Ag Finance & Marketing (sem)

Every Other Year 2009-10 & 11-12

Landscaping/Nursery Mngmnt (sem)

Adv. Landscaping, Nursery, Gardening (sem)

Every Other Year 2008-09 & 10-11

Floriculture & Greenhouse Mngmt (sem)

Every Other Year 20 09-10 & 11-12

BUSINESS DEPARTMENT

ACCOUNTING I: Grades 10-12

The Accounting I course is designed to teach the student the double-entry system of recording business transactions for service and merchandising businesses. Through problems, projects, and practice sets, the student learns to open a set of books, analyze transactions into their debit and credit parts, post to ledgers, prepare worksheets and financial statements, and adjust and close the books at the end of the fiscal period.

ACCOUNTING II: Grades 11-12 (Prerequisite: Accounting I)

Accounting II is a continuation of the first-year course. Emphasis is placed on attaining accounting knowledge to pursue entry-level careers after high school. Students will expand their knowledge of accounting by gaining a broader understanding of business activities needed to maintain and interpret financial records for more effective management. A computerized practice simulation will be completed in this course.

BUSINESS LAW: (1 semester) Grades 10-12

The student will study contracts, torts, and local, state, and federal laws that govern businesses. The student will also learn citizen law and his/her responsibilities. Emphasis is made to help the student develop habits of thinking concerning the legal implications and consequences of his/her acts and relationships.

CONSUMER EDUCATION: (1 semester) Grades 10-12

This course is designed to give the student the necessary background information to help manage his/her money and resources wisely. Topics to be covered include consumerism, money-earning, spending, saving, and investing, types of credit, insurance, major purchases (vehicles and houses), and other related topics.

INTRODUCTION TO BUSINESS: Grades 10-12 (1 semester)

Introductory course of business fundamentals such as economic, legal and social foundations are presented along with a close look at organizing businesses, marketing products and services, financing operations, managing and developing employees, and making difficult business decisions in a competitive atmosphere.

PERSONAL FINANCE: Grades 11-12

This is an elective class that will run for one year. During that time the student will spend time looking at Career Decisions and how that will affect their future lives. Along with that the student will be introduced to employee pay and benefits, federal income tax budgeting and checkbooks. The student will also begin learning about bonds, mutual funds and the stock market. The remainder of the year will be dedicated to real life activities such as buying a house, a car and insuring those items.

ENTREPRENUERSHIP

In its most basic sense, entrepreneurship is apparent in a business venture when an individual is able to turn a novel idea into a profitable reality. In practice, however, entrepreneurship is more multifaceted, ranging from operating a small business in one's own home, to bringing a national franchise to a small town, to turning a new and unique idea into a high-growth company.

Entrepreneurship can involve starting a business that brings a new store to Main Street, offering a product or service previously unavailable to a community, or acquiring an existing business that has had a long-standing presence in a community and helping it evolve to reflect one's own vision and personality.

Topics to be discussed include: obtaining a loan, creating a business plan, advertising, promoting your business, hiring and training employees, and bookkeeping.

FINE ARTS

All art classes are designed to provide students with an understanding of art appreciation and criticism as well as studio procedures. Students are encouraged to take Art I as a prerequisite before enrolling in other art classes. (any exceptions to this will be at the discretion of the teacher) A lab fee is required for each class.

ART I:

The techniques of portrait drawing, positive/negative space concepts and block printing are introduced during the first semester. The second semester is devoted to graphic design, watercolor painting, pastel drawing, and sculpture. Basic art structure is stressed in all areas in order to develop an understanding of the elements and principles of art. Theories of art analysis are covered along with art appreciation.

ART II: Prerequisite: Art I or permission of instructor

Art II students will work with various drawing methods using graphite pencil, colored pencil and ink. During the second semester, 3-D design and oil pastel will be the areas of focus along with the study of art appreciation, criticism and philosophy.

INTRODUCTION TO GRAPHIC DESIGN: Prerequisite: Art I, II or permission of instructor. 1st Semester-

This one semester course can be taken for 3 hours of college credit through Mid Plains Community College. If a student chooses to receive college credit, the student must register with MPCC and pay tuition and fees. Those students that do not wish to take the class for college credit will follow the same course curriculum. This course provides a basic foundation in the art of visual communication. Studies will include production methods, compositional concepts, creative design, and preparation for display. Emphasis is placed on computer assisted design using the Adobe Illustrator CS® software to develop projects. Basic computer skills are necessary.

ART III: Prerequisite: Art I, II or permission of instructor. 2nd Semester

The process and techniques of acrylic painting are covered during the first 9 weeks of the semester. The second half of the semester is devoted to ceramic sculpture. The study of art appreciation and criticism are also incorporated into the curriculum.

ART APPRECIATION: Prerequisite: Junior or Senior Year (1st Semester)

This one semester course can be taken for 3 hours of college credit through Mid Plains Community College. If a student chooses to receive college credit, the student must register with MPCC and pay tuition and fees. This course will transfer to four-year institutions as a humanities general studies requirement. Those students that do not wish to take the class for college credit will follow the same course curriculum. Students will be introduced to the language, process, and history of the visual arts including artists of both past and contemporary society.

ART IV: *Prerequisite: Senior Year, Art I, II, III or permission of instructor. (2nd Semester)*

This is an advanced class that gives students the opportunity to do extended studies in art. Independent studies are developed that include project requirements and individual goals. Students will also write a philosophy of art and participate in the Senior Art Show held at the end of the semester. Developing individual styles and the exploration of various media are emphasized.

BAND: Grades 9-12

Marching band techniques, performances at home and away from home, concert band experience. Students will be required to attend performances that take place out of school time. Advanced musical techniques required, both technical and musical. Emphasis on performing music on an advanced scale.

PERCUSSION: Grades 9-12

This class is for percussionists in senior high varsity band. The class is designed to give the percussionists a separate class period to work out percussion techniques. During the year we will work on cadences for marching band, percussion ensembles, and the percussion parts on the concert music the band will be playing. This class is open to all percussionists with prior band experience.

CHOIR: Grades 9-12

Varsity Choir is a performance class and attendance at all choir performances is mandatory. The choir will perform four concerts during the school year. Members of the choir will also take part in the Southwest Conference Honor Choir and perform at District Music contest. Choir members can letter if certain requirements are met. Emphasis will be placed on performing music of all styles and historical periods on an advanced scale. Membership in various small select groups will be chosen by audition and the directors consent only.

FOREIGN LANGUAGE

NOTE:

*As of the 2000-2001 school year, freshmen and sophomores will not be allowed to take Spanish I if they have a semester grade of **D** or **F** in English during any of the two previous semesters. Sophomores may not take Spanish II if they have an **F** in any semester of Spanish I.*

SPANISH I:

This is an introductory course in the Spanish Language with emphasis on listening, speaking, reading, writing, and culture. This class offers a solid foundation in pronunciation, basic conversation and grammatical structure.

SPANISH II: Prerequisite - Spanish I

This class is a continuation of Spanish I with additional emphasis on vocabulary, grammar, and conversation. Cultural and reading programs are expanded with the use of short stories and magazines.

SPANISH III: Prerequisite: Spanish I and II

This class continues on after Spanish II with more emphasis on conversation and composition. Reading selections are from well-known Hispanic and Spanish-American authors.

SPANISH IV: Prerequisite: Spanish I, II, and III

This class will offer individualized instruction with review of Spanish grammar and conversation. In-depth study will be made of Spanish culture and literature with continued emphasis on conversation and composition.

COMPUTER SCIENCE DEPARTMENT

COMPUTER APPLICATIONS: Grade 9.(1 semester)

Students progress through a series of units including Computer Concepts, Operating Systems, Integrated Software Applications, Internet Utilization, Web Page design, Multimedia Presentation, Desktop Publishing and Programming. Most of the units are project oriented, requiring students to integrate applications, build problem-solving skills and word processing applications.

COMPUTER APPLICATIONS II: Grades 10-12 Prerequisite: Computer Applications I

Computer Applications II is designed to extend and to enrich computer mastery through a series of advanced, inconsequential modules.

Module One: Graphics, uses Corel Draw 10 to create electronic art representative of several artistic periods. Computer skills such as: graphic tablet fundamentals, color drawing tools, layering, text shapes, special effects, filters, advanced colors, bitmaps and 3-D art are introduced. For the final project a Web Page retrospective is assembled using the projects created during Module One.

Module Two: Telecommunications uses the internet for market research, and Microsoft FrontPage 98 for Web page design. A corporate home page is generated detailing company history, product offerings, the companies consulting services and the inquiry response mechanisms.

Module Three: Programming uses Visual Basic 5.0 to create programming games. Programming fundamentals such as statements, functions and keywords are introduced. The projects directly relate to Windows GUI where the properties, methods and events of the integrated developmental environment are addressed.

INDUSTRIAL TECHNOLOGY

WOODWORKING: (Grades 9-12)

*This is a yearlong class but may be taken in the 1st semester only.

This class is intended to introduce the woodworking student to the use of hand power tools, large machines, material identification, and project planning and projects works. The student will also be assigned a project to do, first, with plans already produced. After completion of the required project the student will produce one or two more projects of their own design. The students must pay for their own materials and safety glasses.

ADVANCED WOODWORKING/CONSTRUCTION: (residential): Grades 11-12

Prerequisite: Woods I

Students will begin the year studying construction methods (wall framing, roof construction, sheathing, siding, and foundations) from text and hands on building project when possible. During the 2nd and 3rd quarters students will work on furniture projects of their choosing, the students will have to pay for the materials used in their projects and will be asked to display them in the spring at the Arts night program in May. The 4th quarter of the year students will return to construction/building trades.

WOODS II: Grades 10-11-12 Prerequisite: Woods I

Students will build on the concepts learned in Woods I starting the year with a drafting unit and moving on to tool safety and use. This class is a project oriented class for cabinetry. Each student will build their own project and pay for materials in that project. The student's final grade will be given when they display their project at the Arts Night in May.

ARCHITECTURAL DRAWING/AUTOCAD: Grades 11-12

This is a class for the student who likes to design buildings and homes. The course will require an ability to draw, knowledge of home design, and computer skills. The student will learn freehand sketching, architectural drawing with basic methods and AutoCAD. At the completion of this course the student will have a collection of drawings and house/home designs with floor plans, elevations, plot plans, blueprints and more. Art and math backgrounds are helpful. The class may be taken more than one year, for a more advanced study.

LANGUAGE ARTS

ANNUAL: Grades 10-12 – (limited to 20 members)

This course is considered an advanced writing course. If you have ever received a “C” or below on your report card in English, you cannot enroll for the Annual except by special permission.

This course involves the production of the school yearbook. Activities and class projects include units in how to take creative and clear photographs, learning darkroom techniques and procedures for developing film, printing photographs, and writing yearbook copy. Students will be responsible for designing and creating computer-based page layouts. Students enrolled in this class will be expected to spend out-of-class time working on the annual.

JOURNALISM: (grades 10-12)

This is considered an advanced writing course. If you have ever received a "C" or below on your report card in English or Journalism, you need special permission from the instructor to enroll. Class time is spent researching, writing, editing, typing, and laying out the paper. In addition class members will be required to spend time outside of class collecting information and conducting interviews. They will work in advertising sales and design. Students taking this course will be expected to spend some late afternoons and evening time working to produce *The Indian*. Staff positions include editor, assistant editor, sports editor, photography editor, business manager, and reporters.

SPEECH COMMUNICATIONS: (required – normally taken as a freshman)

The class will begin with an overview of the communication process as it applies to family life, school, work and citizenship. A special unit on listening skills will stress involved listening. Some time will be spent on creating a positive self-image. Job interviewing skills may be practiced in class. Group's communication skills, such as those used in small group situations and parliamentary procedures will be polished. Practice in public speaking will include 5-7 minute informative, persuasive and entertainment speeches. Time permitting, units on debate and oral interpretation will also be included. Participation in speech contest activities will be strongly encouraged. The NSAA speech events will be discussed at some point in the semester.

ENGLISH I:

A combination of grammar and literature is studied in freshman English. Language study focuses on grammar review, phrases and clauses. In addition, proper grammar usage is studied and emphasized. Weekly spelling and vocabulary quizzes enhance the grammar and literature units. Literature is studied in the form of short stories, mythology, non-fiction, poetry, and drama. Longer works covered include *Romeo and Juliet* and *The Odyssey*. Writing assignments include short essays, essay test, five-paragraph essays, and creative writing.

VOCATIONAL ENGLISH I:

This class is somewhat slower-paced study of literature including short stories and short novels. Study of literature is enhanced with vocabulary study of words and their uses. The year begins with an overview of successful study skills. Throughout the year, grammar rules are reviewed. Writing skills are also taught through study of literature and vocabulary study.

ENGLISH II:

Creative writing centers on the creation of an original short story during the first semester. Major works covered include *Antigone and Julius Ceasar*. Directed outside reading of one book per semester is required. Language study includes the stud of writing and cooperative evaluation and revision is encourages. Language stud includes in-depth vocabulary exercises and tests. The novel *Lord of the Flies* is included in the literature studied. Composition includes paragraph structure, short essay and the creative short story.

VOCATIONAL ENGLISH II:

This class is intended for those students who do not plan on attending a four-year college. The focus during the first semester will be on basic grammar; the second semester will focus on reading and writing skills.

GRAMMAR: Required of all juniors

Language study in this class includes extensive vocabulary work, grammar, and short compositions. Preparation for the ACT and PSAT will be included.

VOCATIONAL GRAMMAR: (another option for juniors)

This course is designed for students who require additional study in the area of grammar. Enrollment is based on teacher recommendation and test scores. Material will include written communication instruction, vocabulary study, and enhanced vocational skills.

The following English classes are for juniors and seniors. You must take at least four semesters of English, including Grammar (as a junior), one writing course, and one literature course. The other semester may be either another writing course or a literature course.

RESEARCH WRITING: Pre-requisite - Grammar

Students will learn basic methods of research, including using electronic references. The main project for the semester will be a research paper using MLA documentation form. Students will complete a shorter paper using end notes.

TECHNICAL WRITING:

The study of writing in this course will be geared toward technical rather than scholarly applications. Included will be a review of basic grammar rules, a study of how articles in technical journals and magazines are written differently than those in popular magazines, and practical application of technical writing. Students will write the following areas: process descriptions, analysis by classification, cause-effect reports, and research reports. There is also the possibility for integration with other curriculum areas, particularly industrial technology, vocational agriculture, and the sciences. In addition students will write with an emphasis in business communications: Letters of inquiry and application, personal data sheet, cover letter resume, as well as daily journaling and responding to current magazine articles.

COLLEGE COMPOSITION: (seniors only)

Only qualified seniors are eligible to take this class. Qualifications include high achievement and/or ACT/PSAT scores, a qualifying essay, and the recommendation of previous English teachers. This course is patterned after freshman courses offered at Nebraska colleges and universities. Students will study the processes of close reading and effective writing. Rhetorical patterns studies and practices will include literary criticism, description, narration, exemplification, comparison-contrast, cause-effect, division-classification, and argumentation-persuasion.

AMERICAN LITERATURE:

Literature covered in this course is taken primarily from the Adventures in American Literature (from Colonial time to modern), and will be studied in chronological order. Computer files will enhance the literature study. Various American novels will be read and discussed.

BRITISH LITERATURE:

This is a chronological study of the literature of England, starting with the earliest inhabitants and proceeding through the following ages. The course also includes a study of the history of the English language, starting from its earliest European origins and discussing the changes that have occurred throughout the ages. Major works and authors studied through the anthology include: *Beowulf*, *Canterbury Tales*, Shakespeare, Alexander Pope, John Milton. This is a course that includes additional notes along with the text and a strong historical foundation.

CLASSICAL LITERATURE:

Students will study the *Illiad*, *Odyssey*, *Aeneid*, *Antigone*, *Agamemnon*, *The Inferno* *Paradise Lost*, *Pygmalion*, *Arabian Nights*, *Don Quizot*, *Cyrano DeBergerac*, and others. Students will examine various forms such as epics, plays, mythology, and trilogies.

SHAKESPEARE:

Students will study the dramatic work of William Shakespeare. They will be reading comedies, histories, and tragedies by Shakespeare, as well as watching film version of these plays whenever possible. Plays studied may include (although are not limited to) *A Midsummer Night's Dream*, *Richard III*, and *Hamlet*.

SPORTS LITERATURE:

Sports Literature studies in this course will include short stories, fiction, biography, poetry, and essays. Students will be asked to discuss and write about how sports is treated in different forms of literature, as well as how the idea of the athlete as hero is treated in sports literature

SHORT STORIES:

Students will study the elements and development of the short story as a literary genre. Short stories representative of world cultures as well as American sub-cultures will be utilized in this course. Students will discuss and write about the development of the elements of literature in each short story, as well as about common traits among several different works.

MATHEMATICS

Math Course Sequence

Freshman

Pre-Algebra
(permission only)
Algebra 1A/1B
Algebra 1
Geometry

Sophomore

Consumer Math
Algebra 1A/1B
Algebra 1
Geometry
Algebra II

Junior

Consumer Math
Geometry
Algebra II
Pre-Calculus
Statistics

Senior

Consumer Math
Algebra II
Pre-Calculus
Calculus
Statistics

CONSUMER MATH:

This class will specifically cover basic mathematical operations and concepts as applied to the world of work and vocational problems. This class will assist students in solving problems related to every day living.

PRE-ALGEBRA: by permission only

This class is designed to help students bridge the gap between arithmetic and algebra. It is designed to help students understand that equations are built from common sense and logical reasoning and may be applied to everyday situations. (special permission only)

ALGEBRA 1A:

Students will learn the first half of Algebra I in this course. This course is designed for the student who needs more time processing topics yet wants a more college bound curriculum. Topics include operations with real numbers, properties of real numbers, order of operations, solving equations and inequalities, linear functions and their graphs, systems of equations, proportional reasoning, and measures of central tendency. This course counts as 1 high school math credit.

ALGEBRA 1B:

This is the 2nd course for students taking algebra over 2 years. Students will study exponents, their properties and exponential functions; quadratic equations and functions, radicals, and quadratic graphs: polynomials and factoring; rational expressions and equations; radical equations, the distance formula and midpoint formula. This course counts as 1 high school math credit.

ALGEBRA I:

Students learn basic algebra by working with the following: addition and multiplication of real numbers (sign numbers), solving equations, working with polynomials, factoring, operations with fractions, rational and irrational numbers, linear equations, and quadratic equations.

ALGEBRA II: Prerequisite: Algebra I

A cumulative review of 9th Algebra, plus the following: introduction to functions, more on factoring, irrational and complex numbers, quadratic equations, logarithms, introduction of trigonometry.

GEOMETRY: Prerequisite: Algebra

The class emphasizes the inductive reasoning process, using a variety of strategies to solve real-world problems involving geometrical figures, concepts, and patterns. The deductive reasoning process is also taught but not heavily emphasized.

PRE-CALCULUS: Prerequisite: Algebra I, Geometry and Algebra II

A good review of algebra and trigonometry, to learn the trig functions and how to use them. Analytic geometry, including a good review of graphs and the study of conic sections, (circle, parabola, ellipse and hyperbola). Introduction to calculus to develop and use the derivative and the antiderivative.

CALCULUS: Prerequisite: Algebra II and Pre-calculus

This is an advance placement class designed to take the place of the 1st semester of college calculus.

STATISTICS: Prerequisite: Algebra I, Geometry, Algebra II

This class provides students with an introduction to statistics and probability along with its uses. The course will focus on the application of statistics in their studies and at work and will have an emphasis on widely used technologies. Some class time will also be used for review for the math section of the ACT.

PHYSICAL EDUCATION

PHYSICAL EDUCATION/HEALTH: (this class is required, usually taken in the 9th grade)

PE offers an organized, sequential progression of physical activities, which help to provide for the social, physical, intellectual, and emotional development of girls and boys. Activities included are in five major areas such as: formal activities, games and relays, recreational sports, rhythms and dancing. Students are exposed to the basic skills needed and some of the simple rules they should know to participate in these different activities.

Health is a course designed to provide students with the knowledge necessary to deal with current health issues, which affect them. A wide range of subjects are covered including smoking, personal health care, mental health, eating disorders, sex education drugs, and alcohol.

WEIGHT TRAINING: Grades 10-12

Basic Weight Training - No previous Weight Training classes

This class will be offered to first year weight training students. Weight Training I will put great emphasis on the proper safety and lifting techniques used in weight training. Basic core lifts will be taught in this class. This class will also focus on flexibility, conditioning, and skills testing throughout the year.

ACTIVITIES FOR LIFE: Grades 11-12

This class is intended for the student to learn a variety of ways of using their leisure time to maintain a healthy lifestyle. Units of study include; archery, badminton, bowling, golf, fitness activities, tennis, weight lifting and others.

GIRL'S FITNESS AND WELLNESS: Prerequisite – Physical Education/Health

This class is designed for the female interested in learning the principles of fitness and wanting to work each day to improve their overall state of wellness. Through sessions of aerobics, circuit training, tae bo, weight training and various fitness videos the student will work to improve their fitness level. The concepts of nutrition, strength, endurance, body composition and weight management will be taught.

SCIENCE

EARTH SCIENCE: (required for 9th graders)

Study of four major sciences, astronomy (study of stars, solar system, etc.), mineralogy (study of rocks and minerals), geology (study of structure and changes in the earth's crust and interior, mountains, volcanoes, etc.), and meteorology (study of the atmosphere and weather).

BIOLOGY: (required of all 10th graders)

The students in this class are given an introduction into the study of living things. Plants, animals and protista. The students are given a basic understanding of the structures of plants, animals, monera, fungi and protista at different levels and the classification systems of these organisms. The last nine weeks of the year are applied to the systems of the human body. Cell parts and functions will be emphasized the first nine weeks.

ADVANCED BIOLOGY: Prerequisite: Biology

The main emphasis will be placed on a more in-depth study of biology and biology processes. Specifically the class will be investigating detailed cellular processes, genetics, breeding of fruit flies, and biochemistry. .

CHEMISTRY: Grades 11-12 Prerequisite: Algebra I and advised to take Algebra II concurrently

College preparatory course that covers the basic concepts of chemistry that most colleges look for in their incoming freshmen in science-related courses. It includes studies of chemical bonding, the mathematics of chemistry (stoichiometry), organic chemistry, behavior of chemical solutions, equilibrium, reaction types, acid/base chemistry, oxidation/reduction chemistry, atomic structure, and much more.

PHYSICS: Grades 11-12 Prerequisite: A successful completion of and demonstrated aptitude in Chemistry, Algebra I, and taking Algebra II concurrently.

This is a college preparatory course, which covers the basic concepts of physics that students entering college in fields of physical sciences, medicine, engineering, and related fields need. Includes study of motion, electricity, waves, optics, relativity, and nuclear physics. Requires commitment to significant outside preparation. May be taught in the Distance Learning Room to other schools simultaneously. Conference with instructor recommended before enrolling.

ANATOMY: Prerequisite: Advanced Biology

Anatomy is a one year course. Anatomy is an in-depth course taken by those students who have an interest in detailed Human Anatomy. Anatomy is a comprehensive course that will cover a variety of areas of human anatomy including tissues, bones, muscles, organ systems, etc...

Principles of Technology/Mechatronics : The integration of mechanical, electrical and software systems to control diverse processes. (11th and 12th grade students having successfully completed Algebra 1)

Electronics

A study of electronics principles for students pursuing a career in an electrical trade who have no or little prior knowledge of electricity. The student will gain an understanding of foundational principles including the use of Ohm's Law to calculate values in direct current circuits. The student will perform analysis, calculations and decisions relating to series and parallel circuits, along with analyzing and troubleshooting the circuits with common test equipment.

Pneumatics

A study of the fundamental principles for air-driven systems intended for students pursuing a career in a mechanical trade who have no prior knowledge of pneumatics. The student will gain an understanding of structure, function, and application of cylinders, valves, and other flow control components. The student will perform logic operational analysis, calculations and decisions relating to pneumatics circuits, along with designing and building the pneumatic circuits with industrial-caliber components.

Programming

The LEGO® MINDSTORMS® NXT software is used to program a NXT robotic invention and upload your programs to the NXT. Simple and complex programming are involved in building robots and electrically controlled manufacturing processes.

SOCIAL STUDIES

AMERICAN STUDIES I: (required of all 9th graders)

The primary emphasis of American Studies I is a survey of American History from exploration to the settlement of the Great Plains. Other topics of study will include American Government and map study skills.

AMERICAN STUDIES II: (required of all 10th graders)

The primary emphasis of American Studies II is the 20th century and the role of the United States.

WORLD STUDIES: Grades 11-12 (some 10th graders by permission)

This class is divided into two parts. The first semester is a brief survey of world history. Second semester emphasizes several cultural regions, which are of current interest, such as Latin America, Middle East, Russia, China, India and Pakistan, Southeast Asia and Africa.

GEOGRAPHY: semester course

This course is designed to expose students to the world of geography. This will include a study of maps and globes, features and forces of the earth, climate zones, and culture regions, that will orient the students to the importance of geography in today's world.

Units of study may include but are not limited to the following: United States & Canada, Latin America and the Caribbean, Western Europe, Eastern Europe & Russia, North Africa & the Middle East, Africa and the Sahara, South Asia, East Asia, Southeast Asia, and Antarctica, Australia, & Oceania.

POLITICAL BEHAVIOR: semester course

This is a refresher course in American Government. Political Behavior looks at the working of the U.S. government and the role of the citizen in the democratic process.

PSYCHOLOGY: semester course

Psychology is a science that seeks to answer questions about us all: how we think, feel, and act. It is defined as the science of behavior and mental processes. Unit topics include: The Developing Child, Adolescence, Adulthood, Sensation and Perception, Motivation and Emotion, States of Consciousness, Intelligence and the Brain, Learning, Memory, Language, Critical Thinking, Statistics, Psychological Disorder, Therapy, Stress, Personality, and Social Psychology. Although the course is an overview of concepts and findings, psychology is a way of asking and answering questions about mankind.

SOCIOLOGY: semester course

Sociology is a study of human behavior in-groups. Basically the class is divided into two parts. The first half deals with the methods and vocabulary with which the sociologists work. The second half attempts to apply this information to sociological problems such as prejudice crime, etc.

AGRICULTURAL EDUCATION

All of the agricultural classes are semester classes with the exception of Intro to Agriculture Science & Technology. Some of the classes will be offered every other year. Please check with the advisor before registering for your classes.

The nature of the agricultural industry has been rapidly changing. In order for the students at Broken Bow to become more aware of the changing technology and career possibilities the curriculum is being changed to address those needs. The courses listed are set up on a semester basis allowing students to select the courses they feel will be beneficial to their education.

The opportunities to participate and excel in the FFA program are open to all students enrolled in Agricultural Education, but FFA is not required.

It is suggested in order for students to gain the most from the program that, as freshmen, they enroll in Introduction to Agricultural Technology. This approach will allow them to branch out into their areas of interest.

INTRODUCTION TO AGRICULTURE SCIENCE & TECHNOLOGY: This is a year-long course.

This course is an overview designed to introduce first year students to the world of agriculture and agribusiness. This year course includes career opportunities in agriculture and agribusiness, the importance of agriculture in the world, research and development, analyzing agricultural experience programs, personal finance management, basic plant science, basic animal science, and basic food science technology. Special emphasis will be placed on introductory leadership development.

AGRICULTURAL BUSINESS MANAGEMENT: Grades 11-12 (rotating years)
Prerequisite: Introduction to Agricultural Science or permission of instructor

This course is an overview designed to introduce the student to agribusiness management in the free market enterprise system.. The semester includes types of business arrangements, economic principles, budgeting, analyzing record keeping procedures, agricultural business related laws, computer applications and record keeping, attributes of a successful manager, and government programs.

LEADERSHIP/PERSONAL DEVELOPMENT: Grades 11-12

This course is a broad overview of leadership development through better understanding of an individual's personal development and group interaction. This semester course includes leadership in the community, characteristics of an effective manager, developing communication with groups and individuals, and demonstrating groups and individual efficiency. One of the major projects class members will do is part of the PALS Project. To enter the class you must complete an application and be approved.

ANIMAL SCIENCE: Grades 10-12 (rotating years) Prerequisite: Introduction to Agriculture or permission of instructor

This course is an overview for students wishing to become more aware of animal sciences with emphasis on physiology and anatomy. The semester will cover diseases and parasites, nutrition, anatomy, reproduction, artificial insemination, selecting and breeding, and waste ecology. The semester will also cover beef cattle management, dairy cattle management, swine management, sheep management, as well as marketing livestock and livestock products.

COMPANION ANIMAL CARE: Grades 10-12 (rotating years)

This course is an overview of the career opportunities and job responsibilities of zoo keepers, lab animal technicians, pet shop workers, dog groomers, kennel operators, and veterinary assistants. The semester will include small animal production, care, health, feeding, grooming, reproduction and breed identification.

LANDSCAPING AND NURSERY MANAGEMENT: Grades 10-12

This course is an overview of the horticulture industry and the skills needed for employment in the industry. The semester includes plant science, greenhouse and nursery operations, pests, lawn care, gardening, floriculture, plant propagation, and vegetable production.

ADVANCED LANDSCAPING

NURSERY & GARDENING: Grade 10-12 (rotating years) Prerequisite: Landscaping/Nursery Management or permission of instructor.

This course is an overview of the techniques in landscaping, nursery operations, and gardening with emphasis placed on design, practices, and career opportunities. The semester includes landscape design, ornamental shrubs, nursery practices, landscape practices, turf and grounds maintenance, vegetable gardening, fruit production, identification and selection, fertilizers, and plant propagation.

FLORICULTURE & GREENHOUSE MANAGEMENT: Grades 10-12 (rotating years) Prerequisite: Landscaping/Nursery Management or permission of instructor

This course is an overview of the floriculture industry with emphasis on development design and construction. The semester includes growing structures, growing media, cultural operations, nutrients, propagation, potted plant production, pests, diseases and weeds, floral plant identification, retail floristry principles and construction of a floral design.

AGRICULTURAL FINANCE/MARKETING: Grade 11-12 (rotating years)
Prerequisite: Agricultural Business Management or permission of instructor

This course is an overview designed to give students a better understanding of agriculture and the free enterprise system. The semester will include entrepreneurship, acquisition of capital resources, risk management, and marketing of agricultural products. A majority of class instruction will deal with

marketing strategies, which will include futures trading, hedging, options and marketing of agricultural commodities. The class will form a cooperative that will handle management decisions pertaining to the fruit sales.

NATURAL RESOURCES/WILDLIFE MANAGEMENT: Grade 10-12

This course is an overview designed for students interested in natural resources and conservation. Because of the universal uses of the environment, this course is applicable for every student. Emphasis will be placed on the intelligent use of wildlife and natural resources available within the state as well as an understanding of the importance of wildlife and natural resources. The semester includes careers, resource awareness, current topics of resource management, conservation, wildlife management, pollution, forestry, the government and the environment, wildlife and fish species, fish and wildlife management, management of special wildlife areas and practicum in resource management. As a part of the class members will be involved with PALS project in mentoring elementary and middle school students. Students must complete an application and be approved.

POWER MACHINERY: Grades 11-12 (rotating years)

This course is an overview of power and machinery with emphasis on maintenance, principles, and operation of engines. The semester will include ignition, fuel systems, lubrication systems, air systems servicing small engines, and overhauling of single cylinder engines.

ADVANCED POWER MACHINERY: Grades 11-12 (rotating years) Prerequisite: Power Machinery or permission of instructor

This course is an overview of advanced power machinery with emphasis on maintenance service, and various uses of power. The semester will include wiring practices, electric motors and controls, operation of multi-cylinder engines, systems of multi-cylinder engines, engine overhaul, and shop work on engines. Major emphasis will be placed in the electronics area.

METALS AND WELDING: Grades 11-12 (rotating years)

This course is an overview of metalworking and the various types of welding. Skill development will be a large part of this course and is designed for those students wishing to gain expertise in working with metal. The semester will include oxyacetylene introduction, cutting and welding, and arc introduction and welding skills

ADVANCED METALS AND WELDING: Grades 11-12 (rotating years) Prerequisite: Metals and welding or permission of the instructor

This course is an overview for those seeking advanced welding skills with the use of the various machines. The semester will include introduction and welding with the spoolgun, MIG, and TIG welding skills with the use of the various machines: the use of the plasma cutter, and welding aluminum, stainless steel, cast iron, and hard surfacing. Time will be allowed for fabricating and maintaining equipment.

TEACHER'S AIDE: Grades 11-12

You are expected to attend every day that is possible. If you do need to be gone it is your responsibility to notify the person you are working for.

This is a class that gives the student a chance to work in varied settings. You may be an aide to a teacher, library staff, or work in any of the school offices. You must have written permission from the teacher, no failing grades the previous semester and approval of the principal. You will be evaluated at each mid-term and each nine weeks. This evaluation will be given to the high school principal. If any problems should arise, you may lose the privilege of being an aide. Upon successful completion, the student will receive a grade (at the semester only).

Dual Credit Classes

Dual credit is academic credit awarded to high school students in Nebraska accredited secondary schools both by Broken Bow High School and an accredited post-secondary institution approved by the Broken Bow Schools for the same time and work requirement. Students may simultaneously earn academic credit that will be applied toward high school graduation requirements as well as being posted on the post-secondary transcript which may be counted toward post-secondary degrees.

Requirements for Dual Credit Class Status:

- Courses must be taught by Nebraska certificated teachers.
- Courses must appear on the high school schedule.
- Dual credit courses will receive 5 credits for each semester of class time that puts in at least 200 minutes of class time per week.
- Students must be a Junior or Senior in good standing.
- Students must complete the required Dual Credit course form and have approval from the high school principal prior to acceptance of the course.
- The grade will be counted into the student's GPA.

Dual Credit Courses at BBHS:

- *College Composition
- *College Algebra (1st sem.)
- *College Trig. (2nd sem.)
- *College Psychology (1st period all year)
- *College Art Appreciation (sem.)
- *College Graphics Art (sem.)

Guidelines for the Substitution of Graduation Requirements

The Broken Bow Public Schools will recognize or accept credit from accredited post-secondary institutions for students earning at least 200 credit hours from an accredited high school curriculum program. The Broken Board of Education will allow the substitution of courses from an accredited post secondary institution for courses required to graduate from Broken Bow High School as long as the student is enrolled in the school and meets the following requirements.

Requirements for the Substitution of Courses to meet Graduation Requirements

- Students must complete a course substitution form and have it approved by the high school principal for each course.
- Student must be a Junior or Senior in good standing.
- Each course approved for substitution will receive 5 credits for each semester of sufficient class time.
- The grade will be counted into the student's GPA.
- Students must earn a minimum of 200 high school credits from an accredited secondary institution.
- A college grade report or transcript will be required for the final approval of any course substitution.

print last name

print first name

2008-09 grade

Broken Bow High School 2008-09 Registration Form

Sign up for sixteen class units and list 2 alternative choices.
Please double check to see you have listed all **Required** courses &
any classes to be Retaken due to failing grades, etc.

Classes for 2008-09 school year

FIRST SEMESTER
COURSE NAME

SECOND SEMESTER
COURSE NAME

1. _____	_____
2. _____	_____
3. _____	_____
4. _____	_____
5. _____	_____
6. _____	_____
7. _____	_____
8. _____	_____

***Alternative Courses:** _____

Parent Signature

Date

Student Signature

print last name

print first name

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Date

Student Signature