

Benton High School

**Curriculum Guide for
Students and Parents**

COMMUNICATIONS DEPARTMENT

Graduation Requirements:

4 years of English

1/2 year of Communications (Oral Communications or Drama)

The communications department encompasses the following areas: English, foreign language, public speaking, theatre, journalism and production.

Honors English 1

Credits: 1

Grade Level: 9

Prerequisites: Teacher recommendation and/or test scores and summer reading.

This course is designed for students who have demonstrated above average ability in the language arts. The course focuses on reading, analyzing and writing about literature. The study of grammar is incorporated with writing. The course is designed to prepare students for Advanced Placement English.

English 1

Credits: 1

Grade Level: 9

Prerequisites: Teacher recommendation and/or test scores.

This course is an introduction to the study of literature. The course will integrate the study of grammar, punctuation, usage, vocabulary and writing with the study of literature. Students will be introduced to different literary types and will read several major works. Students will do a variety of assignments including projects.

Honors English 2

Credits: 1

Grade Level: 10

Prerequisites: Honors English 1 or teacher recommendation and summer reading.

This course is designed to challenge above average sophomores. Eighteen to twenty-four weeks will be spent on literature; this will include writing, studying several novels and corresponding movies from which to compare the novel and film versions. The remainder of the course will be spent on spelling and grammar, stressing their applications to writing. The course is designed to prepare students for Advanced Placement English.

English 2

Credits: 1

Grade Level: 10

Prerequisites: English 1

This course is intended for sophomores of average ability. The year will include grammar, literature, and writing. The content of the course is challenging and continues the college/career preparation begun in English 1.

Advanced Placement English 3

Credits: 1

Grade Level: 11

Prerequisites: Honors English 2 or teacher recommendation and summer reading.

This course includes the study of American literature. The American literature course concerns American literature as well as grammar and composition skills in preparation for the ACT and AP Test. A cumulative weekly vocabulary test, extensive writing, and in-depth literary analysis are features of the course.

Advanced Placement English 4

Credits: 1

Grade Level: 12

Prerequisites: AP English 3 or teacher recommendation and summer reading.

This course includes the study of English literature. The English literature course takes a chronological look at English literature and focuses on in-depth literary criticism and analysis in preparation for the AP English Literature exam. The success on the May AP test can earn college credits. A cumulative weekly vocabulary test, extensive writing, and in-depth literary analysis are features of the course.

English 3

Credits: 1

Grade Level: 11

Prerequisites: English 2

This course is an in-depth study of American Literature from Puritan times through contemporary America. The course will integrate the study of grammar, punctuation, usage, vocabulary, and writing with the study of literature. A special unit on grammar and usage is also taught in preparation for college entrance exams.

English 4

Credits: 1

Grade Level: 12

Prerequisites: English 3

This class features a chronological approach to the study of English literature, as well as many multi-cultural selections. Students are asked to do group reports, class presentations, and a research project. The focus of the whole class is to prepare for college level work and job entry skills in reading and writing.

Oral Communications 1 (ELECTIVE)

Credits: 1/2

Grade Levels: 9, 10, 11, 12

Prerequisites: None

This course analyzes and puts to use basic principles of nonverbal communications, group discussion, interviewing, and public speaking. It includes lessons designed to aid the student in discussion, interviewing, and public speaking. It also includes lessons designed to aid the student in overcoming fear of speaking clearly and coherently in communication situations and

improving communication skills. The student will be graded on objective tests, group and individual projects (written and oral), speeches, and class participation.

Oral Communications 2 (ELECTIVE)

Credits: 1/2

Grade Level: 9, 10, 11, 12

Prerequisite: Oral Communications 1

This course is for the student who is interested in perfecting speech techniques. It includes public speaking projects designed to aid the student in speaking clearly and coherently in various public speaking situations. The student will study speaking techniques of various public speakers of our time. The student will also work on techniques of debate and radio speaking. Students will be graded on objective tests, projects (written and oral), speeches, and class participation.

Drama 1 (ELECTIVE)

Credits: 1/2

Grade Levels: 9, 10, 11, 12

Prerequisites: None

This course is a study of the various areas of the theatre arts. It includes a study of acting and interpretation skills, analysis of various forms of literature for in-class-performance, and an overview of the technical aspects of the theatre arts. Projects include an in-class-performance of a dramatic scene, performance of a prose scene or verse cutting, analysis of a play including set, costumes, and character analysis, plus practical experience with the fall or spring drama production.

Advanced Drama (ELECTIVE)

Credits: 1/2

Grade Level: 9, 10, 11, 12

Prerequisites: Drama 1 or permission of instructor

Advanced drama is an in-depth study of performance in its various forms. The course includes scripting and performing a group interpretation, producing a one act play, a study of famous playwrights, a historical look at music theatre, auditioning skills, and various individual performance opportunities. The course may be taken more than one time for credit.

French 1 (ELECTIVE)

Credits: 1

Grade Levels: 9, 10, 11, 12

Prerequisites: None

This course begins the study of the French language. The basics of the language, including reading, writing, and speaking will be introduced.

French 2 (ELECTIVE)

Credits: 1

Grade Levels: 10, 11, 12

Prerequisites: French 1

This course will be a continuation of learning basic French language and culture. It will begin with a review of French. The class will be conducted more in French with emphasis placed on self-expression.

French 3 (ELECTIVE)

Credits: 1

Grade Levels: 11, 12

Prerequisites: French 2 with grade of "C" or better or consent of instructor

French 3 is a continuation of the study of the French language and the culture in France and around the world. The class will be conducted more in French than other French courses. There will be less emphasis on grammar and more on conversation and reading.

French 4 (ELECTIVE)

Credits: 1

Grade Level: 12

Prerequisites: French 3

French 4 is a continuation of the study of the French language and the culture in France and around the world. The class will be conducted more in French than other French courses. There will be less emphasis on grammar and more on conversation and reading.

Spanish 1 (ELECTIVE)

Credits: 1

Grade Levels: 9, 10, 11, 12

Prerequisites: To remain in the second semester one must pass the first semester.

This course begins the study of a modern language. Oral, aural, and reading comprehension skills are stressed through the introduction of basic Spanish grammar, vocabulary, and

conversation. Daily classroom activities expose the student to the culture, history, and geography as well as the language of Spanish speaking countries.

Spanish 2 (ELECTIVE)

Credits: 1

Grade Levels: 10, 11, 12

Prerequisites: Spanish 1 with a "C" or better.

Spanish 2 continues the course of study of culture and language. Emphasis is placed on the use of Spanish to discuss everyday activities and practical situations. Grammar concepts learned in Spanish 1 are applied to Spanish 2. The uses of the past tenses are stressed in structure.

Spanish 3 (ELECTIVE)

Credits: 1

Grade Levels: 11, 12

Prerequisites: Spanish 2 with a "C" or better.

This course is primarily recommended for the college-bound foreign language student. Emphasis is placed on the implementation of the use of spoken Spanish, aural, and reading comprehension. Short stories and novels are read in both levels 3 and 4. Although grammar study emphasizes advanced material such as subjunctive mood and compound tenses, students will further practice concepts presented in Levels 1 and 2.

Spanish 4 (ELECTIVE)

Credits: 1

Grade Levels: 12

Prerequisites: Spanish 3

This course guides the student through a thorough review of Spanish grammar and presents him/her with more in-depth challenge through literature. Reading and writing in the target language are emphasized at this level. Students' writing skills are cultivated and encouraged at this level.

HUMANITIES DEPARTMENT

Graduation Requirements:

3 years of Social Studies (1 American History, 1/2 Government, and 1/2 Geography)

3 years of either Art, Music, Foreign Language, or Vocational course work)

Within the humanities department, students will find varied types of course work. Social studies is one area in which many courses are required. Many elected courses are available in art, psychology, sociology, vocal and instrumental music. Students are encouraged to take as many of the humanities courses as time permits.

Art 1 (ELECTIVE)

Credits: 1

Grade Levels: 9, 10, 11, 12

Prerequisites: None

Art 1 is a survey course in art. This course will introduce students to the language of art (vocabulary), provide an understanding of how works of art are produced (studio work) and finally demonstrate the role of art in civilizations, past and present (films, lecture, readings). Drawing, painting, printmaking, ceramics, sculpture and graphic arts are all explored through hands-on studio projects.

Art 2 (ELECTIVE)

Credit: 1

Grade Levels: 10, 11, 12 (9 with BMS Adv. Art)

Prerequisites: Art 1 or BMS Adv. Art

(Note: May be taken in the same year as Art 3 and/or Art 4)

(May be taken after Art 3)

(May be taken for one semester, for ½ credit, fall only with permission)

Drawing is a basic to the program and this part of the course will cover the elements of 2-dimensional design drawing methods using pencil, colored pencil, pen and ink, pastels, markers, and mixed media. Painting is the other component of this course and will increase the students knowledge of color and painting techniques through the use of tempera, watercolor, acrylic and mixed media. Realism, abstract design, geometric design, and graphic design subjects will be explored.

Art 3 (ELECTIVE)

Credits: 1

Grade Levels: 10, 11, 12

Prerequisite: Art 1

(Note: May be taken in the same year as Art 2 and/or Art 4)

(May be taken before Art 2)

(May be taken for one semester, for ½ credit, fall only with permission)

3-dimensional art and design methods will be explored during this unit of instruction with emphasis on sculpture in wood, plaster, paper, paper mache, hand-built and wheel-thrown pottery, jewelry and crafts.

Art 4 (ELECTIVE)

Credits: 1

Grade Level: 11, 12

Prerequisites: Art 1 and one year of Art 2 and/or Art 3

(Note: May be taken in the same year as Art 2 and/or Art 3, Commercial Graphics, Photography)

(May be taken for one semester for ½ credit, fall or spring with permission)

(May be taken a second year for credit)

This course is for the advanced student with an art career goal or interested students that have developed a genuine appreciation for art and a willingness to do the work. Students must work on individualized projects in their interest area(s) and follow a plan of instruction that includes works in drawing, painting and sculpture. Each student will prepare a portfolio of their work. **(Note: A course description for Photography and Commercial Graphics can be found in the Vocational Department section of this Guide.)**

Band (ELECTIVE)

Credit: 1

Grade Levels: 9, 10, 11, 12

Prerequisite: Ability to play an instrument

Band is open to any student who plays an instrument. Different performing mediums included in the band program are Jazz Band, Marching Band, and Concert Band. Activities by the different bands include performances at home football and basketball games, concerts, parades, and an annual spring tour.

Chorus (ELECTIVE)

Credit: 1

Grade Levels: 9, 10, 11, 12

Prerequisites: Some prior knowledge of music fundamentals is recommended.

Chorus is open to all students with an interest in vocal performance. Some prior knowledge of music fundamentals is recommended. A minimum of four concert performances per year is required. Various performing ensembles are chosen, by audition, from its members.

Geography

Credit: 1/2

Grade Levels: 9, 10

Prerequisites: None

This course will cover the physical geography, history, government, cultural expressions, economics, transportation, communication, population patterns, and life-styles of several regions of the world. The students will learn to use and interpret maps, globes, graphs, charts, tables, and diagrams. Through the study of geography, the student should gain a respect for the values and achievements of other cultures, recognize international interdependence, and achieve a basic understanding of current events.

World History 1 (ELECTIVE)

Credit: 1/2

Grade Levels: 10, 11, 12

Prerequisites: None

This course examines man's history from the beginning on through Reformation. It will emphasize the following topics: First Civilizations, Greeks, Romans, Byzantium, World of Islam. Middle Ages, Renaissance, and Reformation.

World History 2 (ELECTIVE)

Credit: 1/2

Grade Levels: 10, 11, 12

Prerequisites: None

This course examines man's history from the Enlightenment through to the present time. It will emphasize the following topics: the Scientific Revolution, Enlightenment, the French Revolution and Post Revolution Period, the Industrial Age, Nationalism in Europe, the Age of Imperialism, Imperialism in Africa, World War I, Russia, World War II, and the Post World War Period.

American History

Credit: 1

Grade Level: 11

Prerequisite: Students who have a "C" or above in English.

This course covers historical information from Colonial times to the present time.

Remedial American History

Credit: 1

Grade Level: 11

Prerequisite: Students with a grade below a "C" in English.

Remedial American History is a course directed toward the junior level student who is experiencing reading difficulty and lacks communication skills associated with written expression. The student moves at a slower pace and receives more individual attention as he/she completes unit tests and is exposed to multi-media presentations to specific historical events.

Law

Credit: 1/2

Grade Levels: 10, 11, 12

Prerequisite: None

This course provides a practical understanding of the law and the legal system of the United States. The course should also develop students' abilities to analyze complicated problems and come up with solutions that will satisfy more than one perspective or point of view. Course content will include a study of the United States Constitution and its importance in American law with a special emphasis on the Bill of Rights and the protections it affords citizens. Students will be introduced to criminal law and criminal procedure, juvenile justice, civil law, and torts. Legal issues surrounding the employment process, contracts, family issues, and consumer issues will

constitute a part of this course. The students will also learn about the basic trial process and will participate in several mock trials.

Government

Credit: 1/2

Grade Level: 12

Prerequisite: None

This course will cover the basic principles of American government as expressed or implied in the Declaration of Independence, the Constitution of the United States and the Constitution of Illinois. Students will study the rights and responsibilities of citizenship in this country and in this state. Significant court decisions will be studied. This course will cover different means of political expression and the basic political process.

Consumer Economics

Credit: 1/2

Grade Level: 12

Prerequisites: None

In periods of prosperity and during times of shortage you face the question of "How to live well". No other course is more deeply rooted in the real world or more relevant to everyday living than consumer and economic education. This course centers on: economics and the individual emphasizing the economic principles of the U.S. economy and the important roles individuals play as consumers, workers and citizens; decision making emphasizing attitudes, values, and services. You will realize that being a consumer means more than buying "things". The goal is to help you become a confident individual, one who understands his/her responsibilities in the American Economic System.

Sociology (ELECTIVE)

Credit: 1/2

Grade Levels: 11, 12

Prerequisites: None

The purpose of sociology is to understand society. The student is introduced to the field of sociology and the concepts used in analyzing social life; social interaction through roles and relationships; the history and functions of the family, values, norms and the laws of society; and the social problems of crime and discrimination.

Psychology (ELECTIVE)

Credit: 1/2

Grade Level: 12

Prerequisites: None

Psychology is a one semester course open to seniors which is designated to prepare students for Psychology on a college level, to allow students to gain insight into themselves and others, and to help those who are considering psychology or a related career field come to a better understanding of career possibilities and requirements. The course will include a study of personality and personality theory, human growth and development, perception and intelligence, as well as mental health and personal relationships.

MATH AND SCIENCE DEPARTMENT

Graduation Requirements:

2 years of math
2 years of science

Business Math and Computer Literacy may substitute for the second year of math. Student selection to math courses is generally done through teacher recommendation, test scores, or natural course progression.

Algebra 1/2

Credit: 1

Grade Levels: 9, 10

Prerequisites: Teacher recommendation, test scores or natural progression.

This course is an intermediate course between Refresher Mathematics and Algebra designed for those students who have mastered basic math computation skills but are not ready to enter the rigor of Algebra. The course begins with a review of the general properties and operations in arithmetic and gradually works toward the use of algebraic concepts.

Algebra 1

Credit: 1

Grade Levels: 9, 10, 11, 12

Prerequisites: Algebra 1/2 or equivalent

Recommendations: Pass Algebra 1/2 with an "A", "B" or "C"

Algebra 1 provides instruction in the following areas: operations involving real numbers, evaluation of algebraic expressions, exponential notation and operations with exponents, solving equations and inequalities, word problems, graphing inequalities, ratio, proportion, percent, graphing linear equations, radical expressions, factoring, scientific notation, solving quadratic equations, pythagorean theorem, and functional notation.

Algebra 2

Credit: 1

Grade Levels: 9, 10, 11, 12

Prerequisites: Algebra 1

Recommendations: Pass Algebra I with an "A", "B", or "C"

Algebra 1 is reviewed and the following topics are covered: complex fractions, area formulas, volume, fractional exponents, similar triangles, polygons, right triangles, imaginary numbers, polar coordinates, chemical mixture and ideal gas laws, vectors, joint and combined variation, parabolas, and sum and difference of two cubes.

Geometry, Trigonometry, and Algebra 3

Credit: 1

Grade Levels: 10, 11, 12

Prerequisites: Algebra 1 and 2

Recommendations: Pass Alg 2 with an "A", "B" or "C"

Practice in the fundamental skills of algebra, geometry and trigonometry are included. Logarithms are introduced with emphasis placed on the algebra of logarithms. All phases of trigonometry are stressed--trig equations, trig identities, and equations and graphs of sinusoids. Geometry proofs are based on similar figures with paragraph proofs emphasized. Other topics include matrices and determinants, arithmetic and geometric series, and conic sections.

Pre-Calculus

Credit: 1

Grade Levels: 11, 12

Prerequisites: Algebra 1, Algebra 2, and Algebra 3

By the end of the first semester, students will have been presented with the necessary topics to begin work in calculus. The second semester is spent working in a calculus book. This work should give students an introduction to calculus.

Calculus

Credit: 1

Grade Level: 12

Prerequisites: Pre-Calculus

This class is designed for students interested in preparing for a college calculus class. Students planning to enter the fields of engineering, business, physics, or life sciences should take this class. Graphing calculators are used extensively.

Introduction to Lab Science

Credit: 1

Grade Levels: 9

Prerequisite: None

This is a two semester course designed for the freshman level. The goal of the class will be to create scientifically literate students who recognize the importance of science in every day life. In addition, this class will prepare the students for the upper levels of science. The class will address the following areas: Earth Science-weather prediction, effects of storms, formation of resources; Ecology-ecosystems and recycling; Chemistry-chemical bonding and reactions; Physics-structure of buildings, heating, forces, machines, flight and space flight. The class will be taught using a variety of methods. Students will learn note taking skills during the lecture portion. Students will learn lab skills during the hands-on labs which will accompany each unit. Students will work independently and in groups during engaged learning activities. Students will spend approximately 50% of their time in either labs or activities.

Environmental Science

Credit: 1

Grade Levels: 10, 11, 12

Prerequisite: Intro to Lab Science

Environmental Science will be a course offered to sophomores, juniors, and seniors. This class will be geared toward the non-college bound student. The course's goals will be to give students

an appreciation for life, and to expose students to local environmental issues. The class will involve researching environmental issues pertaining to Southern Illinois' recreational areas, including Rend Lake, Giant City State Park, Bell Smith Springs, and the Marion Lake Project. Rend Lake will provide an opportunity to study lake construction and design, water plant operation, and wetland areas. Giant City will provide an opportunity to study animal tracking, and the history of the Depression Era work crews. Bell Smith Springs will provide an opportunity to study the various sides to the logging controversy. The Marion Lake Project will provide an opportunity to investigate the various sides of the endangered species controversy. The four main units of this project will focus on data collection, research, compiling data, analyzing data, and drawing conclusions. Students will present data using Power Point. They will be asked to develop an opinion on the issues and to defend their opinion to their peers.

Biology 1

Credit: 1

Grade Levels: 10, 11, 12

Prerequisites: Introduction to Lab Science or teacher permission.

A broad introduction to fundamental principles of biology will be covered using the laboratory approach. Some currently popular areas of biology will be covered in more detail. The following is a list of areas to be covered: review of the metric system, introduction to biochemistry, cells and their fundamental processes, microbiology (bacteria and disease), the environment, heredity, reproduction, evolution, green plants, and photosynthesis.

Biology 2

Credit: 1

Grade Level: 11, 12

Prerequisites: Biology 1

During the first semester students will study plants. Structure and function of flowering plants ferns, mosses, and algae will be emphasized. An easily read textbook is provided. Numerous laboratory periods will investigate both structure and function by examining live and preserved specimens.

The second semester will be about animals. The major animal groups will be studied in terms of their structure and function. No text is used. Students will receive handout materials. Laboratories will concern the identification of animals based on the characteristics of the groups. The last 2 1/2-3 weeks will concentrate on ecology of ponds, lakes, and forests. Students may take the entire course for one credit or by the semester for 1/2 credit.

Horticulture

Credit: 1

Grade Level: 11, 12

Prerequisites: Biology 1

This course will show you how to grow and care for many different types of green plants. You will learn how to grow plants from seeds, leaf cuttings, stem cuttings, root cuttings, and layering. You will learn about grafting and budding and how to grow plants using specialized stems and roots. You will learn about soils and what types of soil mixtures to use when growing plants. Different types of fertilizers, fungicides, and insecticides will be used.

The text will be a simple guide about these techniques used to grow plants. In comparison with normal science classes, homework will be minimal. Periodically, written tests will be given to test your knowledge of the techniques that you will learn by working in the greenhouse. Hopefully you will develop enough skill to be a greenhouse worker. If you plant your own vegetable garden or flower garden, you will be an expert.

Chemistry 1

Credit: 1

Grade Levels: 10, 11, 12

Prerequisite: Algebra 1 and Intro to Lab Science

Chemistry is a science dealing with the structure and composition of materials and the changes that materials undergo. The general topics of discussion will include matter and its changes, atomic structure, chemical bonding, physical states of matter, chemical composition and equation writing, solutions and suspensions with emphasis on acid-base theories, chemical kinetics and equilibrium, and oxidation-reduction reactions.

Chemistry is a course for all college-bound students. The non-college bound student may also find this course interesting since practical applications are introduced as well as chemical theory. The course will be approximately 30% laboratory experimentation and 70% lecture, class, discussion, question and answer, and examination.

Advanced Placement Chemistry

Credit: 1

Grade Levels: 11, 12

Prerequisites: Chemistry 1

This course is designed to be taken only after the successful completion of Chemistry 1. The advanced work in chemistry should not displace any other part of the student's science curriculum. It is highly desirable that a student have a course in secondary school physics and a

four-year college preparatory program in mathematics. The physics course can well precede the college-level chemistry.

Physics

Credit: 1

Grade Level: 11, 12

Prerequisites: Algebra 1

The objective of this course is to present a study of the relationships between forces, matter, and energy in the physical world with a directness and simplicity that will enable every student to achieve maximum comprehension. The course is directed primarily toward the college-bound student. Areas of study include measurement; forces; rectilinear and curvilinear motion; work, power, and energy; physical optics, photography, and astronomy. Approximately 70% of work will consist of laboratory experimentation. The remaining content will consist of the usual lecture, question and answer, class discussion and examination procedures.

Anatomy & Physiology

Credit: 1

Grade Level: 10, 11, 12

Prerequisites: Biology 1

Anatomy and Physiology is a course offered to sophomores, juniors and seniors, with a Biology 1 prerequisite. This class is college-prep and geared toward students pursuing a bachelors and to students planning to enter the health field. The class will include an overview of the body and a specific study of each of the systems. The overview will include a study of cell structure, growth, development and homeostasis. The systems' studies will include the anatomy of the system, the different levels of organization, the maintenance and growth of the system, healthy functioning of the system, and potential disorders of the system. The class is taught with a combination of lecture, labs, mini-activities, and research.

PHYSICAL EDUCATION, DRIVER EDUCATION & HEALTH

Graduation Requirements:

2 years of Physical Education

1 year of Health

1/2 year of Driver Education

Physical Education is required unless students have been granted an exemption for driver educ., health, Junior/Senior varsity athlete, 1st semester marching band, medical, religious, short credits needed for graduation, work release, cheerleading, and pom pon. Students must complete an exemption form to be eligible. Students planning to enroll in driver education must pass a minimum of eight semesters of credit over the past two years to be eligible.

Physical Education

Credit: 1

Grade Levels: 9, 10, 11, 12

Prerequisites: None

Physical Education offers each individual an opportunity to learn and to understand exercises and games that are enriching to his/her leisure hours after graduation. Physical Education is more than exercise. It is more than athletic competition or aimless play. Physical Education teaches health habits and the responsibilities of group cooperation.

Fall and Spring activities include: golf, tennis, fly and bait casting, kittenball, soccer, flag football, and track/field. Winter activities include: recreational games (badmitton, shuffleboard,

deck tennis, washers, and horseshoes), dodge ball, relays, physical conditioning, aerobics, basketball, volleyball, bowling, volley tennis, wrestling, weight training, and wiffle ball.

Adaptive Physical Education students are permitted to participate in activities that are outlined by their physician. Supervision and guidance is provided by the physical education instructor and the individual assigned to work with the student.

Driver Education

Credit: 1/2

Grade Levels: 9, 10, 11

Prerequisites: Age 15 before test administration.

Fee: \$20.00 for Illinois Instruction Permit, \$20.00 for blue slip.

Eligibility: Students must pass eight semester hours of course work prior to enrolling.

Driver Education is divided into two phases: classroom and behind-the-wheel training. State law requires that all students take the classroom instruction. Those students who successfully pass both the classroom and behind-the-wheel instruction are eligible for an Illinois Driver's License upon reaching their sixteenth birthday.

Introduction to Health

Credit: 1

Grade Levels: 9, 10, 11, 12

Prerequisites: None

This course examines anatomy such as body systems and their functions. Diseases common to each system are also discussed along with prevention techniques. Other topics include issues that teen-agers are faced with today, such as stress, alcohol and drug abuse, STD's and AIDS, teen-age pregnancy, and mental illness.

Health II

Credit: 1/2

Grade Levels: 11

Prerequisite: Intro to Health

Health II is a required part of the curriculum. Topics such as conflict and violence, dealing with stress, health careers, nutrition and CPR are covered as these are mandated by the state.

Introduction to Health Occupations (ELECTIVE)

Credits: 1/2

Grade Levels: 10, 11, 12

Prerequisites: None

This course is an introduction to skills basic to health care providers and exploration of the 200+ health care careers. It serves as a foundation for Health Occupation Core Skills and Health Occupations Skills Development. Students will also be introduced to medical terminology, qualities of health care workers, communications in the workplace, infection control and vital signs. Guest speakers and field trips are also a part of the course.

Health Occupation Core Skills (ELECTIVE)

Credits: 2

Grade Level: 11, 12

Prerequisites: A "C" or higher in Intro to Health Occupations or teacher permission.

Fees: Each student must provide their own uniform and a watch with a second hand.

This course is a further study and training for students who are interested in health care occupations. The students will be given classroom instruction and laboratory experience before they are taken into the local health care facilities for hands-on experience. Students will be introduced and given the opportunity to develop basic health care skills.

VOCATIONAL DEPARTMENT

The vocational department encompasses four major areas: Applied Biological and Agricultural Occupations; Business, Marketing and Management Occupations; Industrial Oriented Occupations; and Personal and Public Service Occupations. Programs of occupational orientation at the 9th and 10th grade levels and occupational training programs at the 11th and 12th grade levels are provided in each of these areas.

A. Applied Biological and Agricultural Occupations

Introduction to Agricultural Industry (ELECTIVE)

Credit: 1

Grade Levels: 9, 10, 11, 12

Prerequisites: None (9th, 10th graders are selected first)

Requirements: Must participate in the FFA.

This introductory course provides an opportunity for students to learn how the agricultural industry is organized; its major components; the economic influence of agriculture at state, national, and international levels; and the scope and types of job opportunities in the agricultural field. Both agribusiness and production applications are presented. Basic concepts in animal science, plant science, soil science, horticulture, agricultural resources, agribusiness management and agricultural mechanics are included. Microcomputer applications are introduced. Students will also establish an SAE program and participate in activities of the FFA.

Agricultural Science (ELECTIVE)

Credit: 1

Grade Level: 10, 11, 12

Prerequisites: Introduction to Ag. Industry

This 2nd year course builds on the basics learned in the Introduction to Ag. Industry course. The class will be divided into two major areas: plant science and animal science. Topics in plant science will include soil science and basic and advanced crop production. Animal science will include large and small animals. Students will also establish or continue an SAE Program and participate in all FFA activities. This course may count as a science elective.

Agribusiness Operations (ELECTIVE)

Credit: 1

Grade Levels: 11, 12

Prerequisites: Introduction to Ag Industry

This third year course consists of agricultural mechanics skills. Topics covered will include: welding, electricity, tractor repair, construction, small engines, surveying, and farm equipment. Students will develop or continue a SAE project and also participate in FFA activities

Agribusiness Management (ELECTIVE)

Credit: 1

Grade Level: 12

Prerequisites: Intro to Ag Industry

This capstone course is designed to develop student skills in the areas of advanced agricultural business procedures, establishment of agricultural businesses, managing the agribusiness, financing the agribusiness, marketing and advertising, sales techniques and strategies. Product knowledge is stressed as it relates to the regional agricultural economic base. Students will also establish or continue an SAE program and participate in activities of the FFA. This course may count as a consumer education credit.

B. Business, Marketing, and Management Occupations

Business Orientation (ELECTIVE)

Credit: 1

Grade Levels: 9, 10, 11, 12

Prerequisites: 1st semester is prerequisite to 2nd semester.

Business Orientation is an introduction to business, marketing, and management. It serves as the foundation course for all of the courses in the business department. The content of this course is important to all students for today's business-oriented environment. This course also offers a business simulation that allows the student to apply what they have learned.

Accounting 1 (ELECTIVE)

Credit: 1

Grade Levels: 10, 11, 12

Prerequisites: None

Accounting 1 is a skill-level course that is of value to all students pursuing a background in business, marketing, and management. Instruction includes information on keeping, summarizing and analyzing financial records. The course will stress basic fundamentals and terminology of accounting and career opportunities in the accounting field. A practice set with business papers will be used to emphasize actual business records management.

Accounting 2 (ELECTIVE)

Credit: 1/2

Grade Levels: 11, 12

Prerequisites: An "A" in Accounting 1

This course is a skill-level course that builds upon the foundation established in Accounting 1. A computerized accounting software package will reinforce these skills. It is a study of previously learned principles as they apply to the more complicated types of business organization such as partnerships and corporations. The student will become familiar with specialized fields of accounting such as cost, tax, and payroll. Accounting 2 provides a technical background for college-bound students who plan a business career as well as those who wish vocational preparation.

Business Management (ELECTIVE)

Credit: 1/2

Grade Levels: 10, 11, 12

Prerequisite: None

This course gives the student insight to the characteristics, organization, and operation of a business. It covers the environment of business, business ownership, marketing, production finance, information systems, personnel, government regulation, and taxation. The student will learn what is involved in the management of a business.

Business Math (ELECTIVE)

Credit: 1/2

Grade Levels: 10, 11, 12

Prerequisites: None

This course is designed to develop basic mathematical operations of addition, subtraction, multiplication, and division of fractions, decimals, and percentages as they relate to specific business operations in discount, banking and payrolls. The student will apply the math concepts to realistic business situations, forms, and reports. The students will be able to use their calculator as an aid for mathematical operations. This course will substitute for math credit.

Business English (ELECTIVE)

Credit: 1/2

Grade Levels: 10, 11, 12

Prerequisites: None

This course is designed to help the student improve their writing skills for real-life business correspondence by developing their abilities in grammar, spelling, reading, vocabulary, and writing. The students will apply these skills and abilities in writing business letters, memorandums, and resumes.

High School Orientation (Keyboarding) (ELECTIVE)

Credit: 1/2

Grade Levels: 9

Prerequisites: None

Keyboarding is the beginning course for non-business students. Students will learn the keyboard by touch and the proper techniques for keyboarding. Students will be introduced to formatting (arrangement, placement, and spacing of documents) letters, tables, and other communication

forms. Students will develop the keyboarding skills needed for their personal use. This class is a must for all non-business students.

High School Orientation (Research) (ELECTIVE)

Credit ½

Grade Levels: 9

Prerequisites: None

This course starts by giving the students the basic overview, concepts and set-up of the library. It covers such things as Dewey Decimal System, reference section, card catalog along with the rest of the library related materials. The students spend time learning proper searching skills on the internet. They also evaluate internet sites for accuracy, authenticity and integrity in addition to developing searching skills. A brief segment of each semester is used for guidance-assisted help in career awareness.

Typing 1 (ELECTIVE)

Credit: 1

Grade Levels: 9, 10, 11, 12

Prerequisites: None

This is the beginning keyboarding class for business students. This course is designed for the student who wants to develop his/her keyboarding skill for occupational training as well as for personal use. Students will not only learn the keyboard and the proper techniques for keyboarding but also learn to format (how to arrange, place, and space) documents. Students will learn document processing (skilled production of letters, reports, tables, and other communication forms). During the second semester, students refine their keyboarding techniques, improve their basic skills, and do more advanced document processing. In this class students learn the skills to succeed in the electronic workplace of the future. Students who have completed keyboarding may enroll in the second semester of Typing 1.

Office Practice (ELECTIVE)

Credit: 1

Grade Levels: 11, 12

Prerequisites: Keyboarding, Computer Concepts, or consent of instructor.

This course is for the student who wants hands-on experience in business practices, business management, and office procedures. Students will receive advanced training in the most widely used microcomputer applications--Word Perfect; DBase IV; Lotus 1, 2, 3; and PageMaker. Students will also receive training in operating transcribing machines, operating reprographics equipment, operating electronic calculators, alphabetic and subject filing, and entering the world

of work. Students will take part in operating a business. Employability Skills will be stressed. This is the grade 12 class for the Tech Prep Business Management Program.

Information Processing (ELECTIVE)

Credit: 1

Grade Levels: 10, 11, 12

Prerequisites: Keyboarding, Computer Concepts or consent of instructor

This course reinforces the fundamentals and use of computers and the way in which computers process information. Students will become proficient users of the four most widely-used in microcomputer applications--Word Perfect for word processing; DBase IV for database records management; Lotus 1, 2, 3 for spreadsheets; and PageMaker for desktop publishing. Students will develop skills in telecommunications. Also students will improve their formatting and production skills so that upon completion of this class they will have entry-level job skills. All work will be done on MS DOS (IBM compatible) computers (Novell Network Lab).

Record Keeping (ELECTIVE)

Credit: 1/2

Grade Level: 10, 11, 12

Prerequisite: None

Record Keeping is a class that is intended to prepare students for a variety of entry-level jobs. The class will provide the student with an understanding of business forms and procedures. It will increase the students' abilities to read, speak, spell, and recognize the meanings of common business and record-keeping terms. Record keeping provides the skills and knowledge that students can use in everyday personal business activities.

Computer Concepts

Credit: 1/2

Grade Levels: 9, 10, 11, 12

Prerequisite: Keyboarding

Computer concepts is an introduction to the microcomputer, its features and uses. Emphasis will be placed on hands-on familiarization of the operation and functions of the microcomputer. Basic programming concepts will be introduced to the student.

Computer Programming

Credit: 1

Grade Levels: 10, 11, 12

Prerequisite: Computer Concepts

Emphasis on creative problem solving skills in a computer environment. Advanced database applications and techniques serve as the programming medium. Object oriented programming skills are covered in addition to simple visual basic modular programming techniques.

Computer Networking I

Credit 1

Grade Levels: 10, 11, 12

Prerequisite: Computer Programming or interview with the instructor

With courseware developed by Cisco, the leading manufacturer of networking equipment students are introduced to networking concepts, LAN and WAN development, and the equipment necessary for those enterprises to work. This is an advanced course requiring hard work, the ability to study independently, and a high degree of motivation for the serious study of computers and networking systems.

Computer Networking II

Credit 1

Grade Levels: 10, 11, 12

Prerequisite: Computer Programming or interview with the instructor

This course is a continuation of Networking I. Students are immersed into the deeper regions of networking technology and applications. This is an advanced course requiring hard work, the ability to study independently and a high degree of motivation for the serious study of computers and networking systems.

Jobs for Illinois Graduates

Credit: 1

Grade Levels: 12

Prerequisite: None

Through group projects and activities, the students will learn the value of teamwork on the job or in an organizational context. Students will develop an awareness of individual aptitudes, abilities, interests, life goals and desired life styles. Through guest speakers and field trips, the curriculum also includes information about the world of work, various occupations and career paths. Students will construct a resume', conduct a job search, develop a letter of application, develop telephone techniques, complete job applications and develop job interviewing skills.

Students will demonstrate appropriate appearance on the job, understand what employers expect of employees and practice effective human relations.

C. Industrial Oriented Occupations

Illinois Plan A (Intro to Drafting) ELECTIVE

Credit: 1/2

Grade Levels: 9, 10, 11

Prerequisites: None

The main objectives of this course are to develop the student's basic skills in drafting, and to familiarize the student with all the different areas and occupations related to the field of drafting, engineering, architecture, transportation, and communication technology. Basic skills will be developed through the study and use of instruments and lines, sheet layout and lettering, and basic shape description. Occupational familiarization will be achieved through lectures, engineering, topographical drafting, and electrical drafting. This basic course is for all students interested in the engineering field.

Illinois Plan B (Intro to Woods, Metals, Auto) ELECTIVE

Credit: 1/2

Grade Levels: 9, 10, 11

Prerequisites: None

Industrial Education Orientation is a series of four courses that will be taught at the ninth and tenth grade. The courses will include Production Technology, Transportation Technology, Communication Technology, and Energy Utilization Technology. Each course will cover the resources, technical processes, industrial applications, technological impact and occupations encompassed by that system. This four course set provides the orientation component to all skill-level industrial occupation program.

Drafting 2 (Drafting 1) ELECTIVE

Credit: 1

Grade Level: 10, 11, 12

Prerequisites: Illinois Plan A

The first semester will focus on developing the student's skills and drafting abilities beyond the basic level, and to help the student prepare for a drafting or graphical related occupation. In-depth study and drawings will be done in such areas as multi-view drawing, dimensioning, basic descriptive geometry, pictorial drawing, threads and fasteners, civil engineering, architecture, transportation, and communication technology. The main objective of the second semester is to further the student's knowledge and understanding of architectural and mechanical

drafting. Students who do well in this course and have a high academic grade will be allowed to continue this course of study in Advanced Drafting/Computer-Aided Drafting.

CAD I (Engineering Graphics) ELECTIVE

Credit: 1

Grade Levels: 11, 12

Prerequisites: Drafting 2, instructor approval, and high academic standing in previous drafting courses.

This course is designed to provide students interested in a career in drafting with information and practical experience needed for the development of job-related competencies. The course content would include planning and organizing activities researching information, coordinating work and performing basic layouts, detailing drawings such as sectional and isometric views, using various reproduction techniques and using CAD command processes to produce CAD grid drawings.

CAD II (Architectural Graphics) ELECTIVE

Credit: 1

Grade Levels: 11, 12

Prerequisites: Drafting 2, instructor approval, and high academic standing in previous drafting courses.

This course continues the program begun in Drafting/Computer-Aided Drafting I and emphasizes the areas of performing presentation techniques such as building plans, interpreting codes and constructing structural working drawings, producing mechanical and electrical/electronic working drawings, producing civil engineering drawings, and using /producing CAD drawings.

Advanced Computer Aided Drafting (Adv. CAD) (ELECTIVE)

Credit: 1/2

Grade Levels: 11, 12

Prerequisites: Illinois Plan A and Drafting

This course is an in-depth study of how computers are used in engineering, architecture, and drafting departments throughout industry. The course content would include the use of high tech software in making working drawings for all phases of drafting. Students will become familiar with CAD systems including different computers, input and output devices, plotters, and professional software packages. This course is for students pursuing a career in engineering, architecture, design, drafting or any industrial related occupation.

Auto Mechanics (ELECTIVE)

Credit: 2

Grade Levels: 11, 12

Prerequisites: Application and approval.

Class Meets: Rend Lake College

The first eight weeks is an introduction to power mechanics including a description of basic systems, safety, tools, equipment and engines. The next eight weeks is an introduction to carburetor and ignitions: fuel systems and electrical systems. The third eight weeks is an introduction to power trains and suspension. The fourth eight weeks is an introduction to accessories: heating, air conditioning, power windows, power seats, and lighting/wiring.

Commercial Graphics (ELECTIVE)

Credit: 2

Grade Levels: 10, 11, 12 by permission only

Length: 2 period block, 1 year

Prerequisites: Art 1

(Note: May be taken in the same year as Art 2 and/or Art 3, Art 4)

(May be taken for up to 3 years for credit)

The majority of the class projects will come from outside of the classroom. Graphic artwork will be created for use by faculty, staff, administration, and various student organizations. (Posters, signs, tickets, bumper stickers, T-shirts, banners, etc.) Students will: 1) learn the language of commercial graphics (vocabulary); 2) understand how various forms of graphic arts are created and used in society through the creation of printed, painted, and computer generated projects; 3) understand how graphic arts have impacted society through the study of poster art, war propaganda, album covers, bumper stickers, campaign buttons, and signs; 4) become acquainted with time constraints and deadlines through the use of projects generated outside of the classroom; and 5) develop team and leadership skills. Second and third year students will lead less experienced students and hold more responsibility. Potential projects include: painting local storefront windows for special events, public service announcement posters, hovercraft graphics, graphic work on football stadium, painting graphics on football field, painting special event banners, t-shirt designs, bumper stickers design, design and painting of classroom and hallway graphics, and work in design contests. Internships are possible in the summer. This class will also include guest speakers and field trips.

Photography 1

Credits: 1

Length: 1 year

Grade Level: 11, 12 by permission only

Prerequisite: Art 1 and/or Art 2

Equipment: 35 mm SLR camera with 50mm lens

Lab fee: \$35.00

(Note: May be taken in the same year as Art 2 and/or Art 3, Art 4)

(May be taken for one semester, for ½ credit, fall only with permission)

(May be taken a second year as Photography 2 for credit)

Photography 1 is an independent study course using a series of assignments in which the student will explore and experiment with the photographic image and special effects. Each student will be instructed in the proper use and care of their camera, and how to develop and print black and white negatives using proper darkroom procedures. Photography 2 is a continuation of Photography 1 with new more in-depth assignments.

Manufacturing I (Woods) ELECTIVE

Credit: 1

Grade Levels: 10, 11, 12

Prerequisites: Illinois Plan B

This is a machine working course offered primarily to Sophomores. It is a continuation of the Illinois Plan. Major goals are to teach the care, use, and safety factors of woodworking tools and machines and also to teach the fundamentals of good design. It covers the basic general information on reading a working drawing, factors in purchasing and using lumber, figuring of board feet, problem solving through the planning of procedures and necessary vital safety observances. The course will articulate the basic construction phases of a house: footings, foundations, floor joists, walls, rafters, roofing, and finishing a house.

Manufacturing II (Metals) ELECTIVE

Credit: 1

Grade Levels: 10, 11, 12

Prerequisites: Illinois Plan B

This is a course designed to provide experience in the various phases of metal working. To give information about a variety of metal working industries dependent upon metal and its use. This course will cover skills in handling and modifying metal, as well as other manufacturing processes used today in industry.

Hovercraft (ELECTIVE)

Credit: 1

Grade Levels: 11, 12

Prerequisites: Permission of teacher

Students involved in building hovercraft will be exposed to many things. Math will be used in calculating mass, square feet, weights, pulley sizes, horsepower, center of gravity, etc. Skills of working with polyfoam, styrofoam, fiberglass and other composite materials will be taught. Sewing will be taught for the purpose of making the skirts (airbags) that will eventually allow the craft to float on air. After completion of the project the students will participate in rallies throughout the midwest. We will calculate our successes and failures and prepare for the next year's project.

Personal and Public Service Occupations

Orientation to Home Economics (ELECTIVE)

Credit: 1

Grade Levels: 9, 10, 11, 12

Prerequisites: None

This is a composite course designed to expose students to the various areas of Family and Consumer Science and related occupations. The course includes introductory units in nutrition, food preparation, dieting, child care, clothing selection, construction and crafts, personal relationships and areas of employment opportunities in Family Science related areas.

Food Science (ELECTIVE)

Credit: 1/2

Grade Levels: 10,11,12

Prerequisites: None

Food Science is a semester course in foods and food preparation which will provide the students with knowledge and skill in selection, care, and preparation of foods at home and in an occupational setting. The course includes units in food sanitation, shopping skills, management of the food dollar, microwave cooking, a thorough study and preparation of salads, soups, sandwiches, recipes using cheese, cakes, pies, and fancy candies. Students will also explore careers in the food service area.

Food Management I (ELECTIVE)

Credit: 1

Grade Levels: 11

Prerequisites: None

This course is designed for those who would be interested in a career in the food service/hospitality industry. This course uses the ProStart program endorsed by the National Restaurant Association. If you are interested in a career in this quickly growing industry, this program will also offer the chance to work and gain certified experience toward job placement.

Food Management II (ELECTIVE)

Credit: 1

Grade Levels: 12

Prerequisites: Food Service I

This course is year 2 of the ProStart Food Service Management program. Additional work experience, food preparation, and management skills are developed in this course. These courses can be eligible for Rend Lake College cooperative college credit and can make you eligible for available National Restaurant Association Scholarships.

Adult Living (ELECTIVE)

Credit: 1/2

Grade Level: 12

Prerequisites: None

This course is designed to assist students in assuming adult living skills. Consumer information on managing a home, credit, banking, insurance, health information, economics, and investment.

Child Development (ELECTIVE)

Credit: 1/2

Grade Levels: 10, 11,12

Prerequisites: None

A course designed to help students understand the physical and emotional development and needs of children. Adolescent pregnancy, mate selection, conception, child birth, daily care, relationships between family members, discipline, family problems, birth defects, and Day Care will be explored. Field trips and guest speakers will be included. This course is a prerequisite for Child Care Occupations.

Child & Day Care Service Occupations (ELECTIVE)

Credits: 2

Grade Levels: 11, 12

Prerequisites: Child Development and approved application to program.

This is further study and training for students who are interested in working with children, whether it is on the pre-school, kindergarten-primary, pediatric nursing level, or training for the future role of motherhood. A classroom study is provided before students work in three local day

care centers and elementary classrooms for hands-on experiences in learning about, and dealing with children. An in-school nursery school will be conducted for additional laboratory experience.

Parenting (ELECTIVE)

Credit: 1/2

Grade Levels: 11, 12

Prerequisites: None

This course is designed to help students desire and attain a successful, happy adult life. Topics will cover the entire life process. Students will make a notebook as we progress through life. Learning how to cope with daily living, parenting, family problems, aging, and life in general in a positive manner.

Living Environments (Housing and Interior Design) ELECTIVE

Credit: 1/2

Grade Levels: 11, 12

Prerequisites: None

Living Environments is learning about housing and our environment. This course is an opportunity to learn the background of our housing history, its style, both inside and outside, elements of design and color. The course will cover the study of slides of historic homes, go on field trips, and study floor plans. All of this information will be put together to design and decorate a house plan.

E. Miscellaneous

Academic Support

Credit: Service Learning for Tutor (Average of 66 hours per semester)

½ Credit for student being tutored per semester

Grade Levels: 9, 10, 11, and 12

**Prerequisite: Recommendation of a teacher or requested by parent
(can also be requested by student)**

This course offers peer tutoring to students at risk of failing a class. Student tutors work individually and in groups to help fellow students be successful academically. Tutors are accepted into this program based on academic excellence, attendance, and overall behavior. They receive service learning credit for hours spent tutoring. Students in need of tutoring services are accepted primarily by teacher or parent recommendation, but may request the services on their own accord. Students participating in the program receive a grade of pass or fail.