



## PRAIRIE CENTRAL HIGH SCHOOL

### REGISTRATION

2005-2006

The attached curriculum guide has been prepared in an attempt to provide each Prairie Central High School student with the necessary information needed to plan a successful and rewarding four-year career.

You will be counseled individually and scheduled into courses that are mutually determined to best meet your individual career goals.

Ultimately, the successful completion of your four years at Prairie Central High School rests with you. The administration and counseling staff are ready, willing, and able to answer your questions and assist you in this process.

Good Luck!

## STUDENT CLASSIFICATION AND ENROLLMENT

1. STANDARD CLASS LOAD. All students will carry four classes each term.
2. Only four (4) credits earned by correspondence/extension/junior college may be used to fulfill graduation requirements. These must be pre-approved by the principal and the student's counselor.
3. One- and two-term classes are offered. Two-term classes receive one Carnegie unit and each term course receives one-half Carnegie unit for successful completion. Driver Education, Reading in the Information Age, H.A.W.K., Computer/Keyboarding Fundamentals, and Character Education each receive one-fourth credit.
4. To graduate, a student must have earned 28 credits.
5. To participate in the commencement and baccalaureate ceremonies, students must:
  - (a) complete 27 credits.
  - (b) enroll in one credit to be completed by the beginning of the next school term.
  - (c) receive approval of the high school principal in each instance where less than the required number of credits have been accumulated.
6. The diploma will be awarded upon successful completion of the graduation requirements inclusive of:

English (English I, English II, and English III)	3
Mathematics	2 (3 credits required starting with the class of 2009)
Science	2 (3 credits required starting with the class of 2009)
Social Science	2
Physical Education	3.75
Driver Education	.25
Consumer Education	.5
Computer	.5
Health	.5
Students must also complete the following:	
H.A.W.K.	.25
Reading in the Information Age	.25
Character Education	.25
*Computer/Keyboarding Fundamentals	.25
*(With the class of 2008, this course fulfills the computer requirement.)	
Electives	12.5 (10.5 credits starting with the class of 2009)
Total	28

Students must also pass the following:

- (a) test on the Federal Constitution
- (b) test on the State Constitution

7. COLLEGE PREP (Minimum Requirements)

	Units/Credits
English (emphasizing written and oral communications and literature)	4
Social Studies (emphasizing history and government)	3
Mathematics (introductory through advanced algebra, geometry, trigonometry, or introduction to computer programming)	3
Science (laboratory courses)	3
Foreign Language, Music, Art, or Vocational	2

**Note: Students should consult college catalogs for specific admission requirements.**

8. G.E.D. Individuals meeting the General Education Development (G.E.D.) requirements will receive certification of completion from the agency conducting the program after successful completion of the G.E.D. program requirements. Prairie Central High School DOES NOT issue diplomas for G.E.D. programs.
9. The Valedictorian and Salutatorian will be based on eight (8) semesters' work.
10. Transfer students must meet only the yearly requirements of the year(s) they enroll at Prairie Central High School and thereafter. The requirements of the school from which they transfer will be accepted as long as they are complete for each year of that school. Any deficiencies from the prior school must be completed at Prairie Central High School.
11. The Physical Education requirement is waived for students who are off campus for two periods to attend the Livingston Area Vocational Center or the work experience requirement of the I.C.E./C.V.E. programs or students who are enrolled for both band and chorus courses.
12. GRADUATION AFTER SEVEN SEMESTERS

It is the policy of the Board of Education that eight (8) semesters of attendance shall be the normal requirement for graduation from Prairie Central High School. However, the Board recognizes that special conditions might arise which could call for consideration of an alternative to the eight (8) semester attendance requirement.

In order for a student to be eligible for seven (7) semester attendance, the following must be completed:

- a. The student must have met all graduation requirements.
- b. A written request should be provided to the student's counselor indicating the intention of early graduation. This letter should be submitted prior to the start of the second semester of the senior year.
- c. Have a special need and an appropriately planned educational experience (vocational school, college, military service, or on-the-job training for the remainder of the four-year period).
- d. Have written evidence of approval and acceptance of the planned educational experience including in writing, parental consent, school or employment verification, and local administrative approval.

## COURSE LOAD RECOMMENDATIONS

<b>Freshmen College Prep</b>	Credits	<b>Freshmen General Curriculum</b>	Credits
English I	1	English I	1
Intro. to Physical Science	1	Intro. to Physical Science	1
Intro. to Algebra, Algebra I, or Geometry	1	Intro. to Alg., or Alg. 1	1
Reading Info. Age: H.A.W.K.	1/2	Reading Info. Age: H.A.W.K.	1/2
Physical Education	1	Physical Education	1
Computer/Key Fund: Character Ed.	1/2	Computer/Key Fund: Character Ed.	1/2
Health	1/2	Health	1/2
Fine and Applied Arts*	1		
Electives	<u>1 1/2</u>	Electives	<u>2 1/2</u>
Total:	8	Total:	8

\*Fine and Applied Arts include Foreign Language, Art, and Music. Additional Requirements: 1/2 credit (one term) in Social Studies to be completed preferably during the ninth or tenth grade.

<b>Sophomore Recommended College Prep</b>	Credits	<b>Sophomore General Curriculum</b>	Credits
English II	1	English II	1
Algebra I, Geometry, or Algebra II	1	Alg.I or Intro. to Geometry	1
Biology or Chemistry	1	Bio.:A comm. Context or Biology	1
Driver Education/Physical Education	1	Driver Education/Physical Education	1
American Government	1/2	American Government	1/2
World History	1		
Fine and Applied Arts*	1		
Electives	<u>1 1/2</u>	Electives	<u>3 1/2</u>
Total:	8	Total:	8

\*Fine Arts includes Foreign Language, Music, or Art.

<b>Junior Recommended College Prep</b>	Credits	<b>Junior General Curriculum</b>	Credits
English III/AP English	1	English III	1
Geometry, Algebra II, or Pre-Calculus	1	Geometry, Algebra II, or Pre-Calculus*	1
U.S. History	1	U.S. History	1
Resource Management (Consumer Ed.), Ag Economics, or Economics	1/2	Resource Management (Consumer Ed.), Ag. Econ. or Economics	1/2
(or pass state adopted test)	No Credit	(or pass state-adopted test)	No Credit
Chemistry or Physics	1	Biology or Chemistry in the Community*	1
Physical Education	1	Physical Education	1
Electives	<u>2 1/2</u>	Electives	<u>4 1/2(2 1/2)*</u>
Total:	8	Total:	8

\*Starting with the Class of 2009

<b>Senior Recommended College Prep</b>	Credits	<b>Senior General Curriculum</b>	Credits
English Literature	1/2	American Government	1/2
Advanced Composition	1/2	Physical Education	1
AP English	1		
American Government	1/2	Electives	<u>6 1/2</u>
Science (4th year strongly encouraged)	1		
Mathematics (4th year strongly encouraged)	1		
Physical Education	1		
Electives	<u>2 1/2</u>		
Total:	8	Total:	8

## AGRICULTURE

Any student enrolled in an Agriculture class at some point during the school year is eligible to be in FFA. The FFA makes a positive difference in the lives of students by promoting premier leadership, personal growth, and career success.

### 5010 AG SCIENCE I - A101 - (AG I) (2 terms)

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. Basic concepts in animal science, FFA leadership, agribusiness management, and beginning skills in construction, including the use of power and hand tools, carpentry, and concrete construction, are introduced.

Class Level: 9-12 (This course is intended for grades 9 and 10.)

Credit: 1 unit credit

### 5020 AG SCIENCE II - A201 - (AG II) (2 terms)

This second year course presents basic concepts of production applications not introduced in Ag Science I. Major units of instruction include soil science; conservation of natural resources; surveying; forestry; feeding and managing beef, swine, sheep, dairy, and poultry; livestock and dairy selection; meat grading and identification; and milk, cheese, and dairy products evaluation. Applied math/science skills are stressed throughout the course.

Class Level: 10-12

Credit: 1 unit credit

### 5030 AG SUPPLY AND SERVICE - A301 - (AG III) (2 terms)

This course is designed to develop student knowledge and skills in the area of agribusiness organization using the hands on technology and management skills developed through the FFA Corn and Soybean Variety plots. Crop production techniques including weed and pest control, chemicals, fertilizers, and cultural practices for corn and soybeans are studied. Another goal of this course is to increase student knowledge and skills in appropriate agricultural product and service areas by developing needed background understanding and performances in small engine power, metal fabrication (welding), and electrical wiring, motors and controls. Emphasis will be placed on math and science skills.

Class Level: 11-12

Credit: 1 unit credit

#### 5040 AGRICULTURE POWER, MACHINERY, AND EQUIPMENT - A404- (AG IV) (2 terms)

This capstone course is designed to develop a student's skills in advanced agricultural mechanics offering hands on experiences which will develop his understanding and performance in the repair, maintenance, and adjustment of agriculture power, machinery, and equipment. Tractors, combines, sprayers, planters, drills, tillage equipment, and machinery management will be studied. Another goal of this course is to increase student knowledge and skills in appropriate agricultural product and service areas. Applied math and science skills will be stressed. Students may receive three hours of college credit at Joliet Junior College if they successfully complete this course with a grade of 86%. Students must take this course as well as Construction Electricity and Welding to qualify for this credit.

Class Level: 11-12

Credit: 1 unit credit

#### 5060 AGRICULTURE ECONOMICS /BUSINESS MANAGEMENT- (2 terms)

**This course fulfills the high school consumer education requirement.**

This course is designed to develop student skills in the areas of economics with special emphasis on agriculture. Students will develop performance skills and an understanding of financial analysis, budgets, cost analysis, cash flow statements, marketing, investment analysis, credit, insurance, taxes, business organization. Students will develop a farm plan that will include labor distribution and farmsteads. This is an excellent course for students going to college or wanting to pursue a career in agriculture.

Students may receive three hours of college credit at Joliet Junior College upon successful completion of this course. You must receive an 86% or better to obtain the credit from JJC.

Class Level: 12

Credit: 1/2 unit credit

#### 5100 LARGE AND SMALL ANIMAL CARE (1 term)

This class is designed to instruct students in the areas of feeding, caring, and selection of dairy, beef, sheep, and horses. Training and caring for dogs and cats will also be covered. Importance of the animal industry will be reviewed. (This class is not for students enrolled in AG I or AG II. This course is designed for the nontraditional agriculture student.)

Class Level: 10-12

Credit: 1/2 unit credit

#### 5110 HORTICULTURE (1 term)

The Horticulture course will include: identification, evaluation, potting, propagation and caring of houseplants, flowers and vegetables; care of trees, shrubs, and grass in lawns, golf courses and athletic fields; landscaping homes and buildings; and design and construction of a terrarium.

Class Level: 10-12

Credit: 1/2 unit credit

### 5120 AG RESOURCES (1 term)

Ag Resources is a study of wildlife habitats, hunting, trapping, fishing, forests, prairies, soils, pond management, and conservation of natural resources. Development of habitat will also be covered. Students will earn certification in hunter safety and trapper education.

Class Level: 10-12

Credit: 1/2 unit credit

### 5130 SMALL ENGINES (1 term)

The student will develop an understanding and performance skills in the operation, maintenance, adjustment repair, and overhaul of two and four cycle single cylinder engines. Math and science skills will be stressed.

Class Level: 9-12

Credit: 1/2 unit credit

### 5140 CONSTRUCTION ELECTRICITY (1 term)

The student will develop an understanding and performance skills in the basic principles and applications of wiring switches and receptacles in branch circuits, electric motors, and electric controls. Agriculture structures develop skills necessary for carpentry construction including surveying, bill of materials, parts of structures, marking rafters, laying concrete block, roofing, reading blueprints, and plumbing. Math and science skills will be stressed. Students may receive three hours of college credit at Joliet Junior College if they successfully complete this course with a grade of 86%. Students must take this course as well as Ag. Power & Equipment and Welding to qualify for this credit.

Class Level: 9-12

Credit: 1/2 unit credit

### 5150 WELDING (1 term)

The student will develop an understanding and performance skills in arc, acetylene, MIG and TIG welding; hot metal, cold metal, and tool maintenance. Emphasis will be placed on math and science skills. Students may receive three hours of college credit at Joliet Junior College if they successfully complete this course with a grade of 86%. Students must take this course as well as Ag. Power & Equipment and Construction Electricity to qualify for this credit.

Class level: 9-12

Credit: 1/2 unit credit

#### 5160 GREENHOUSE MANAGEMENT (1 term)

Components of plant growth, pest diagnosis and control, crop nutrition and fertility, as well as growing, care, and maintenance of greenhouse crops will be studied. Greenhouse crops will be raised and marketed through the school greenhouse. Flower arranging will also be done.

Prerequisite: Horticulture

Class Level: 10-12

Credit: 1/2 unit credit

#### 5170 LANDSCAPING (1 term)

This course is designed to develop students' skills in landscaping design and planning with a hands-on approach with a site project. Students will develop skills in drawing and designing landscape plans, transplanting and maintaining plants, interior plantscaping, concrete and patio construction, construction of benches and decks, identification of landscape plants, and operating a landscape business.

Prerequisite: Horticulture

Class Level: 11-12

Credit: 1/2 unit credit

#### 5180 LIVE ANIMAL AND MEATS EVALUATION (1 term)

This course provides a study of the relationship between form and function in the evaluation of beef, dairy, swine, and sheep. This will also provide a study for the evaluation of meats, quality, and yield grading.

Prerequisite: AG I or AG II

Class Level: 10-12

Credit: 1/2 unit

## ART

### 5910 DRAWING AND DESIGN (1 term)

This class is designed for the beginning art student, with an emphasis on two-dimensional work. Students will learn how to draw forms using perspective and shading. Assignments will incorporate the elements and principles of art, to create still life drawings and landscapes. Drawing media used will include pencil, charcoal, and ink. Students will develop skills, that will enable them to evaluate and critique two-dimensional artwork.

Class Level: 9-12

Credit: 1/2 unit credit

### 5920 DRAWING AND PAINTING (1 term)

Drawing and Painting builds on the skills learned in Drawing and Design, emphasizing two-dimensional work. Students will study color and its effective use in a composition. Assignments will incorporate the elements and principles of art, to create still life drawings and landscapes, in various styles of drawing and painting. Color media used will be pastels, watercolors, tempera, and acrylic paint. Students will continue developing skills that will enable them to evaluate and critique two-dimensional artwork.

Prerequisite: Drawing and Design - (Minimum Grade 78%)

Class Level: 9-12

Credit: 1/2 unit credit

### 5940 POTTERY AND SCULPTURE (1 term)

Pottery and Sculpture builds on the skills learned in Drawing and Design, emphasizing three-dimensional work. Students will study three-dimensional form and the effective use of the elements and principles of art in a composition. Pottery methods will include hand building and wheel throwing. Sculpture media will be clay, paper, and tooling foil. Students will develop skills that will enable them to evaluate and critique three-dimensional artwork.

Prerequisite: Drawing and Design - (Minimum Grade 78%)

Class Level: 9-12

Credit: 1/2 unit credit

### 5950 ADVANCED DRAWING (1 term)

Advanced Drawing is designed for the serious art student, and expands on the skills learned in Drawing and Design. Lessons will apply the elements and principles of art, to create portrait and figure drawing. Some of the drawing media used will be pencil, charcoal, ink, and pastels. Students will continue developing skills that will enable them to evaluate and critique artwork.

Prerequisite: Drawing and Design AND Drawing and Painting (grade minimum of 89% in Drawing and Painting)

Class Level: 11-12

Credit: 1/2 unit credit

5980 ADVANCED ART (1 term)

Advanced Art is designed for the serious art student. Students will be challenged as they create portfolio quality work. A variety of materials and methods will be used to further develop skills learned in previous art courses. Works of art by artists, from both, the past and present, will be explored. Students will continue developing skills that will enable them to evaluate and critique artwork.

Pre-requisites: Pottery and Sculpture +Advanced Drawing (grade minimum of 89% in Advanced Drawing)

Class Level: 11-12

Credit: 1/2 unit

## BUSINESS

### 4010 KEYBOARDING - B102 (1 term)

This course is designed for those students who desire additional keyboarding skill enhancement. Students will use proper technique to learn the correct keyboard fingering in order to improve speed and accuracy. Business correspondence and report and table formatting will be emphasized.

Class Level: 9-12

Credit: 1/2 unit credit

### 4020 ADVANCED KEYBOARDING - B102 (1 term)

This course is designed to help students further develop speed and accuracy on the keyboard using proper technique. Students will also learn correct formatting for a variety of business-style documents and practice their skills in a business simulation.

Prerequisite: Successful completion of Computer/Keyboarding Fundamentals or Keyboarding

Class Level: 9-12

Credit: 1/2 unit credit

### 4030 BUSINESS CONCEPTS - B101 (1 Term)

This course will focus on money management skills for personal finance. The topics will include checking accounts & banking, financing large consumer purchases, using credit cards, obtaining insurance, investing in stocks & bonds, and budgeting. Students will also learn how businesses are started and the activities necessary for operation. This course will satisfy the computer course requirement for graduation.

Class Level: 9-12

Credit: 1/2 unit credit

### 4060 BUSINESS SOFTWARE - B201 (1 term)

Students will be taught a basic integrated software package using word processing, database, spreadsheet, and presentation. They will be able to use this package to produce word processing documents, apply a database to make electronic files and labels, and gain a basic understanding of spreadsheet formulas used in solving business problems and projecting future trends. This course will satisfy the computer course requirement for graduation.

Prerequisite: Successful completion of Computers/Keyboarding Fundamentals or Keyboarding

Class Level: 10-12

Credit: 1/2 unit credit

#### 4080 ADVANCED BUSINESS SOFTWARE - (1 term)

This course is a continuation of Business Software. It provides an in-depth study in the creation, design and use of word processing documents and spreadsheets for business applications. Emphasis will focus on advanced capabilities, including functions, supplemental tools, and template design.

Prerequisite: Business Software

Class Level: 10-12

Credit: 1/2 unit credit

#### 4310 ACCOUNTING I - B300 (2 terms)

This course provides the student with the necessary skills and techniques to perform the double-entry accounting tasks commonly found in business. Directed practice, through projects and practice sets, allow the student to keep a set of books covering the entire accounting cycle from journalizing to closing the books at the end of a fiscal period. Three variations of journals are presented: the columnar journal, special journals, and the combination journal. An understanding of the general ledger and two subsidiary ledgers (accounts receivable and accounts payable) is integrated and developed. Presentations are also made of special accounting problems. Automated accounting procedures will also be covered using the microcomputer.

Class Level: 10-12

Credit: 1 unit credit

#### 4410 ACCOUNTING II - B302 (2 terms)

This course develops and explains the basic skills learned in Accounting I which are needed in the field of accounting. Special emphasis is given to an accounting career showing opportunities for progress. The course outlines the opportunities for an accounting career and provides the learning needed for the entry-level positions and the basis for further accounting study. Work consists of a short review of basic principles and recording procedures intended to improve technique. Additional study will be done in new areas such as department accounting, budgetary and control accounting, partnership accounting, cost accounting and special problem accounting. Automated accounting procedures will also be covered using the microcomputer.

Prerequisite: Accounting I

Class Level: 10-12

Credit: 1 unit credit

#### 4430 PRINCIPLES OF MARKETING (1 term)

Principles of Marketing is an interesting and exciting class that will help students explore business careers and numerous marketing concepts. Areas which will be explored are marketing activities, marketing functions, marketing concept, implementation of marketing concepts, development of marketing, societal issues in marketing, basic economic problems, roles of consumers, producers and government, demand and supply, international marketing, and market segmentation. Students will apply basic marketing strategies while having fun participating in computer simulations that allow them to manage their own business. Principles of Marketing is for students that are interested in marketing as a career.

Class Level: 10-12

Credit: ½ unit credit

#### 4450 LAW FOR BUSINESS AND PERSONAL USE – (1 term)

Law for Business and Personal Use will introduce students to many facets of law. You will understand rights for arrest, search and seizure, and other personal rights granted by the Constitution. This will be followed with an in-depth study of contract law and the determination of what constitutes a legally binding contract. Property law, rental agreements, employment law, and finance law are some of the topics that will be studied.

Class Level: 10-12

Credit: ½ unit credit

#### 4460 WEB PAGE DESIGN – (1 term)

This course allows students to explore the exciting world of the web page design. In the rapidly growing area of web page design, students will learn to plan, create and maintain a personal and business web page. This course does not require extensive knowledge of programming, but an understanding of software packages is essential. Students will use the software package FrontPage 2000 to create web designs. Students who have an interest in how web pages are created and may wish to pursue a career in web design should consider this course.

Prerequisite: Business Software

Class Level: 10-12

Credit: ½ unit credit

#### 4480 BUSINESS ENGLISH (1 term)

Business English, taught at the junior or senior level, develops the students' abilities to write, design, and publish authentic business materials while applying appropriate style, punctuation, spelling, and grammar. Content includes the study of journalism. Lessons incorporate presentation and desktop-publishing software as well as the Internet in the publication of newsletters, brochures, and other business materials. This course may count toward English credit.

Prerequisite: English II plus either Keyboarding, or successful completion of Computers/Keyboarding Fundamentals

Class Level: 11-12

Credit: ½ unit credit

## COMPUTER SCIENCE

### 1720 COMPUTERS/KEYBOARDING FUNDAMENTALS (1/2 term)

Keyboarding is the communication vehicle for computers. Students will increase speed and accuracy by using correct keyboarding techniques. Students will also learn to create business letters and other basic document formats. In addition, students will use application software and Internet activities to expand their knowledge and role of the computer in today's world. Starting with the class of '08 (freshmen during the 04-05 year), this course will satisfy the computer course graduation requirement.

Class Level: 9

Credit: 1/4 unit credit

### 1750 INTRODUCTION TO COMPUTER PROGRAMMING (1 term)

This course is an introduction to the logical theory and practice of computer programming. The language of Pascal is used to allow students to discover and apply their problem solving ability. The fundamental principles of computer programming are learned and can be transferred to other computer languages. This course will satisfy a 1/2 unit Math credit as well as the computer course graduation requirement.

Prerequisite: Geometry (or concurrently enrolled in second term of Geometry)

Class Level: 10-12

Credit: 1/2 unit of Math credit

### 1800 JAVA PROGRAMMING (1 term)

This course allows students to work with the up and coming object oriented computer programming language named Java. Students will explore and program with Java's unique features including easily completed graphics capabilities and insertions for web page design. This will be the first term of 2 terms necessary to prepare for the Advanced Placement Computer Science examination.

Prerequisite: Introduction to Programming (Pascal)

Class Level: 10-12

Credit: 1/2 unit of Math credit

### 1820 ADVANCED AP JAVA PROGRAMMING (1 term)

This is a course that will apply and enhance the concepts introduced in Java AP Programming. A unique graphics based case study is used to allow students to assimilate programming principles. Upon completion of this course, a student may (but not required) take the Advanced Placement Computer Science examination.

Prerequisite: JAVA AP Programming

Class Level: Grade 11-12

Credit: 1/2 unit of Math credit, with the opportunity to earn college course credit (3-5 hours) and/or Advanced Placement in computer programming.

## ENGLISH

**All students must pass English I, English II, and English III to meet the English requirement to graduate.**

### 1010 ENGLISH I (2 terms)

English I includes listening, speaking, and other communication skills. It also includes an introduction to various forms of literature: modern drama, novels and novels as short stories, and an expansion of communication skills in the area of developing sentences, paragraphs, and short compositions.

Class Level: 9 (Required)

Credit: 1 unit credit

### 1020 ENGLISH II (2 terms)

English II emphasizes various forms of literature: short story, poetry, drama (including Shakespeare, modern, and Greek), prose, and the literary terms necessary to the study of literature. The second emphasis is on written and oral communications, including well-written sentences, paragraphs, compositions, and an oral research report.

Class Level: 10 (Required)

Credit: 1 unit credit

### 1030 ENGLISH III (2 terms)

English III emphasizes an historical development of the literature of our country from the 1500's to the present. Authors and works representative of each period will be studied. Types of literature will include short stories, novels, poetry, drama, and non-fiction. The second emphasis is on general expository writing. The well-written sentence, the process of writing, and the types of paragraphs will be studied. The writing of compositions, paraphrases, and summaries will also be included, as will the study of the correct use of the English language and the use of figurative language.

Class Level: 11 (Required)

Credit: 1 unit credit

### 1040 ENGLISH LITERATURE (1 term)

English Literature is an historical survey of the literature of England from Beowulf to the Romantic Period. Students will examine the history of the English language, along with the authors and works of each period, including essays, poetry, and drama. Through writing, students will apply techniques of literary analysis and criticism. This course is recommended for college prep seniors.

Class Level: 12

Credit: 1/2 unit credit

### 1050 ADVANCED COMPOSITION (1 term)

Advanced composition encourages students to develop individual writing styles by practicing a number of strategies throughout the writing process. In a workshop lab setting, students will engage in personal writing, analytical writing, and rhetorical analysis. The course emphasizes the critical thinking skills needed to complete a formal research project. Throughout the term, students will compile a portfolio of their work. Word processing skills are highly recommended. This course is recommended for college prep seniors.

Class Level: 12

Credit: 1/2 unit credit

### 1060 NOVELS/SHORT STORIES (1 term)

As a community of readers, students will read, discuss, and evaluate significant novels and a number of short stories, both classic and modern. Students will be invited to look closely at their own reading and thinking processes as they engage in whole class, small group, and individual activities. A portion of the class will include self-directed reading.

Class Level: 11-12

Credit: 1/2 unit credit

### 1070 SPEECH I (1 term)

Speech is a course recommended for both college-bound and non-college bound students. The course will deal with the development of good communication skills with emphasis on listening and public speaking. Frequent speeches of various kinds will be expected of each student.

Class Level: 10-12

Credit: 1/2 unit credit

### 1080 ADVANCED SPEECH (1 term)

Advanced speech is recommended for those students who wish to continue their speech training. Emphasis will be placed on advanced speech techniques, interpersonal communication, and oral interpretation of dramatic selections.

Prerequisite: "C" average in Speech I

Class Level: 11-12

Credit: 1/2 unit credit

### 1090 CREATIVE WRITING (1 term)

In a creative writing workshop setting, each student is expected to develop his or her personal writing style. In order to refine creative writing skills, students will experiment with a number of writing techniques. Working individually and in groups, students will write in several forms, including poetry, non-fiction, and short stories. Students may also investigate other genres of writing as part of individual projects. Throughout the course, students will complete a portfolio of their work. Word processing skills are highly recommended.

Class Level: 11-12

Credit: 1/2 unit credit

### 1150 ADVANCED PLACEMENT ENGLISH LITERATURE (2 terms)

This Advanced Placement program offers instruction in English literature and composition intended to represent freshman English courses commonly offered in colleges and universities. This course will provide intellectually mature and academically curious students with instruction intended to prepare them to take Advanced Placement exams for college credit. Students who enroll must be willing to devote the energy necessary to complete a rigorous and demanding course of study. Class activities will include comprehension exercises, thematic and rhetorical analysis of works in all literary genres, in and out of class writing, and research of authoritative sources.

Prerequisite: English I, II, III

Class level: 11-12

Credit: 1 unit, with the opportunity to earn college course credit or Advanced Placement in English

### 1220 TRANSITION ENGLISH I, II, III (2 terms)

This class will place its emphasis on practical English skills for learning, work, recreation as well as other areas. The class will also include practical letter writing and functional reading skills.

Class Level: 9-12

Credit: 1 unit credit

### 4480 BUSINESS ENGLISH (1 term)

Business English, taught at the junior or senior level, develops the students' abilities to write, design, and publish authentic business materials while applying appropriate style, punctuation, spelling, and grammar. Content includes the study of journalism. Lessons incorporate presentation and desktop publishing software as well as the Internet in the publication of newsletters, brochures, and other business materials. This course may count toward English credit.

Prerequisite: English II plus either Keyboarding, Computer Applications, or successful completion of Fundamentals of Keyboarding

Class Level: 11-12

Credit: 1/2 unit credit

## FAMILY AND CONSUMER SCIENCE

### 4510 CLOTHING AND TEXTILES I - HE203 (1 term)

Students learn the role of clothing in the life of the individual and society; the importance of color, line, and design in fashion. Material is covered on fabrics, sewing equipment, and care and operation of the sewing machine. Basic construction skills are performed in various projects. Lab fees are charged.

Class Level: 9-12

Credit: 1/2 unit credit

### 4610 FOODS AND NUTRITION I - HE201 (1 term)

Basic meal planning/nutrition begin in Foods I. Breakfast type foods - quick breads, beverages, eggs, breakfast meats, cheese, milk; and lunch type foods - soups, sandwiches, and casseroles are studied and prepared in laboratory situations. Lab fees are charged.

Class Level: 9-12

Credit: 1/2 unit credit

### 4520 CLOTHING SKILLS II (1 term)

Students do a more in-depth study of design in clothing and fabrics. Emphasis will be placed on more complex construction procedures. Lab fees are charged.

Prerequisite: Clothing and Textiles I or consent of instructor

Class Level: 9-12

Credit: 1/2 unit credit

### 4620 FOOD PREPARATION AND NUTRITION II - HE202 (1 term)

A concentrated study of classifications of vegetables, meat, fish, poultry, and basic types of desserts are prepared in a laboratory situation. Additional emphasis is placed on nutrition, economical food preparation, and management. Lab fees are charged.

Prerequisite: Foods and Nutrition I

Class Level: 9-12

Credit: 1/2 unit credit

### 4630 INTERNATIONAL FOODS (1 term)

Students in International Foods will study the cultures and customs of foods and their preparation of various foreign countries as well as regions of the United States. Lab fees are charged.

Prerequisite: Foods and Nutrition I

Class Level: 11-12

Credit: 1/2 unit credit

#### 4530 CLOTHING SKILLS III (1 term)

Students wishing to do tailored types of garments and/or sewing for profit would benefit from skills taught in this course. Lab fees are charged.

Prerequisite: Clothing Skills II

Class Level: 10-12

Credit: 1/2 unit credit

#### 4640 ADVANCED FOOD PREPARATION AND MANAGEMENT III (1 term)

An advanced study of special skills used in preparation of yeast breads, pastries, cakes and cake decorating, candies, and pastas. Laboratory work is individualized. Lab fees are charged.

Prerequisite: Food Preparation and Nutrition II

Class Level: 10-12

Credit: 1/2 unit credit

#### 4800 CHILD DEVELOPMENT (1 term)

This course provides students with an understanding of the aspects of human growth and development. The content emphasizes a better understanding of children's physical, intellectual, emotional and social growth from infancy through adolescence. Skills are developed as appropriate care, positive guidance techniques and child related issues are studied. Learning activities, observation techniques, and working with children are included.

Class Level: 9-10

Credit: 1/2 unit credit

#### 4810 ADULT LIVING - HE401 (1 term)

This course is designed to assist individuals and families in achieving life satisfaction through reasonable participation as adults in the home, community, and workplace. Emphasis is placed on responding to situations in terms of identified goals and values. Personality, communication, relationships, marriage, death, and divorce are studied.

Class Level: 11-12

Credit: 1/2 unit credit

#### 4820 PARENTING - HE301 (1 term)

This course will examine parenting roles across the life span. Parenting will help students think through the responsibilities, expectations, satisfaction, and stress of parenthood. Areas of emphasis include: pre-natal development; childbirth; health of mother and child; parenting situations; effective parenting; stress prevention and management.

Class Level: 11-12

Credit: 1/2 unit credit

4910 HOUSING & INTERIOR DESIGN- HE300 (1 term)

Housing and Interior Design is a study of the structuring of a house, house design, and how it relates to the interior design. Also emphasized are design principles, furniture styles, selection and coordination of the interior design.

Class Level: 11-12

Credit: 1/2 unit credit

4920 SKILLS FOR LIVING (1 term)

This course will expose students to a variety of family and consumer science skills enabling the student to make meaningful decisions regarding living independently. Meal preparation, basic sewing and clothing care, buying skills, and general household operations will be covered. Lab fees are charged.

Prerequisite: Teacher or counselor recommendation

Class Level: 12 (No previous Foods or Clothing Classes)

Credit: 1/2 unit credit

## FOREIGN LANGUAGE

### 3110 SPANISH I (2 terms)

The aim of this course is to provide students with a basis for learning a foreign language as it is spoken and written today. Emphasis is given to developing the student's basic language skills-listening comprehension, speaking, reading, and writing. Aural and oral proficiency is stressed. A second aim is to increase the student's awareness and understanding of the people and culture of the target language. Evaluation is based upon communicative competence — written and oral — and objective testing in content areas.

Prerequisite: Guidance approval (strong English skills recommended)

Class Level: 9-12

Credit: 1 unit credit

### 3120 SPANISH II (2 terms)

This course, a continuation of the first-year program, provides students with an in-depth explanation of language structure. Listening, writing, and speaking skills are expanded, and an understanding of the language and culture is further developed. Evaluation is based upon communicative competence — written and oral — and objective testing in content areas.

Prerequisite: Spanish I

Class Level: 9-12

Credit: 1 unit credit

### 3130 SPANISH III (2 terms)

This course is directed at developing the student's communicative skills. The students review major principles and learn fine points of structure. Students develop the necessary skills for reading in the target language. Practical application of the language is emphasized through the use of written and audio texts. Evaluation is based upon communicative competence — written and oral — and objective testing in content areas.

Prerequisite: Spanish II

Class Level: 10-12

Credit: 1 unit credit

### 3140 SPANISH IV (2 terms)

Communication and grammar are emphasized through the culture, literature, and history of the target population. Evaluation is based upon written and oral communicative competence, as well as objective testing in content areas. This course looks ahead to the possibility of students continuing their language education at a post-secondary level.

Prerequisite: Spanish III

Class Level: 11-12

Credit: 1 unit credit

### 3210 FRENCH I (2 terms)

Students with strong language skills who put forth a solid academic effort will learn basic French. Emphasis is placed on grammar, speaking, writing, reading, and listening comprehension.

Prerequisite: Guidance approval (strong English skills recommended)

Class level: 9-12

Credit: 1 unit credit

### 3220 FRENCH II (2 terms)

French II is a continuation of French I but at a faster pace. The material covered is more complex and builds on basic grammar covered in French I. The student who makes a concerted effort will develop a limited ability to converse, read, and write in French.

Prerequisite: French I

Class Level: 9-12

Credit: 1 unit credit

### 3230 FRENCH III (2 terms)

French III is a continuation of skills acquired in French II. The emphasis is still on grammar, speaking, writing, reading, and listening comprehension; however, the material covered is more complex. French literature will be introduced, and more writing will be expected. Only the serious French student should enroll in this course.

Prerequisite: French II

Class Level: 10-12

Credit: 1 unit credit

### 3240 FRENCH IV (2 terms)

French IV is a continuation of French III. The emphasis is still on grammar and communication skills. In addition, there is a more in-depth study of the history, culture, literature, and art of the French people. This course is for the serious student who may intend to pursue French after high school graduation.

Prerequisite: French III

Class Level: 11-12

Credit: 1 unit credit

## FRESHMAN REQUIRED CLASSES

6850 H.A.W.K. (HEALTHY ATTITUDES WORTH KEEPING) (A-L) - 1/2 term

6860 H.A.W.K. (HEALTHY ATTITUDES WORTH KEEPING) (M-Z) - 1/2 term

The H.A.W.K. program is required for all freshmen and is a four and one-half week course. Students will be learning about and discussing the following topics: adjustment to high school, career and educational planning, organization, responsibility for self, and other timely topics. Discover is used to help explore career choices. The counselors teach this class.

Class Level: 9 (Required)

Credit: 1/4 unit credit

3000/3100 READING IN THE INFORMATION AGE (1/2 term)

This course will guide students in developing reading strategies for the multiple texts of a digital age: Internet, textbooks, literature, information, and other media. Students will use both library and technology resources in reference applications as well as reading for enjoyment.

Class Level: 9 (Required of all 9th graders)

Credit: 1/4 unit credit

6900 CHARACTER EDUCATION (1/2 term)

A character education program developed to guide students' behavior through established standards; it will provide a way to honor individual perspectives and values that are represented within a school. The focus is on ethical ends, but the practices involved reinforce important skills involved in students' social development.

Class Level: 9 (Required of all 9th graders)

Credit: 1/4 unit credit

1720 COMPUTERS/KEYBOARDING FUNDAMENTALS (1/2 term)

Keyboarding is the communication vehicle for computers. Students will increase speed and accuracy by using correct keyboarding techniques. Students will also learn to create business letters and other basic document formats. In addition, students will use application software and Internet activities to expand their knowledge and role of the computer in today's world. Effective beginning with the class of '08, this course will satisfy the computer course graduation requirement.

Class Level: 9 (Required of all 9th graders)

Credit: 1/4 unit credit

## INDUSTRIAL TECHNOLOGY

### 5310 ORIENTATION TO INDUSTRIAL TECHNOLOGY - I101 (2 terms)

This course covers a basic introduction of woodworking, metalworking, and drafting. It also introduces hand tools and basic machines used in working with wood and metal. Projects are assigned in each area, placing emphasis on the skills and knowledge needed for more advanced work. An appropriate amount of instruction is spent in the classroom discussing units in the textbook relating to the work which students are involved with in the shop. Lab fees are charged for individual projects.

Class Level: 9-12

Credit: 1 unit credit

### 5320 MECHANICAL DRAWING - I102A (1 term)

This class covers the fundamentals of mechanical drawing, including the study and use of mechanical drawing instruments, multi-view and pictorial drawings. Through the construction of numerous drawings, students learn to draw and read the different types of mechanical drawings.

Prerequisite: Orientation to Industrial Technology or instructor approval

Class Level: 10-12

Credit: 1/2 unit credit

### 5330 COMPUTER-AIDED DRAFTING (CAD) (1 term)

This course is designed to develop students' skills in technical drafting with the assistance of a computer-drafting program. The course will emphasize fundamental drafting commands, multi-view and isometric drawings, sectioning, dimensioning, and tolerancing used in industrial technology industries, such as parts machining and product development.

Prerequisite: Orientation to Industrial Technology

Class Level: 10-12

Credit: 1/2 unit credit

### 5340 ARCHITECTURAL DRAWING - I202A (1 term)

This course includes architectural design and drawing house plans. Basic house construction is studied, including hardware, lumber, and fasteners.

Prerequisite: Mechanical Drawing

Class Level: 10-12

Credit: 1/2 unit credit

### 5350 ADVANCED COMPUTER-AIDED DRAFTING (1 term)

This advanced course is based on technical drafting skills and intermediate architectural design fundamentals. Emphasis in technical drafting will be placed on drawings utilizing assembly detail and exploded views. The architectural segment will emphasize elevations, wall sections, foundation detail, and floor plans.

Prerequisite: Computer-Aided Drafting

Class Level: 10-12

Credit: 1/2 unit credit

### 5410 CONSTRUCTION TOOLS AND MATERIALS - I201 (1 term)

This course is designed to expose the student to the processes, materials, and procedures related to this industry. Emphasis will be placed on the specific tasks and necessary tools to reach an objective, including manufacturing. Construction projects made of wood, wood products, or related materials will require the proper selection and use of hand and power tools. The student will learn measurement skills and related math, safety, and proper work habits. Each unit will involve related shop experiences. Lab fees are charged for individual projects.

Prerequisite: Orientation to Industrial Technology or Instructor/Counselor approval

Class Level: 10-12

Credit: 1/2 unit credit

### 5420 ADVANCED WOODWORKING (1 term)

Furniture design and construction are studied and a major project of the student's choice is constructed. Types of portable tools are also studied. Several assignments relating to power tools are prepared out of class by students. Lab fees are charged for individual projects.

Prerequisite: Construction Tools and Materials

Class Level: 11-12

Credit: 1/2 unit credit

### 5430 METALS - I203 (1 term)

This course introduces the student to sheet metal work, welding, forging, heat treating, and foundry practices. A project is completed in each area. An appropriate amount of instruction is spent in the classroom discussing units in the textbook relating to the work which students are completing in the shop. Lab fees are charged for individual projects.

Prerequisite: Orientation to Industrial Technology or Instructor/Counselor approval

Class Level: 10-12

Credit: 1/2 unit credit

#### 5440 METAL MACHINING - I203 (1 term)

Students learn to run the metal lathes, milling machine, and surface grinder. Further study is given to heat treating. Students construct an assigned project using the machines along with a project of the student's choice. An appropriate amount of instruction is spent in the classroom discussing units in the book relating to the work with which the students are completing in the shop. Lab fees are charged for individual projects.

Prerequisite: Metals

Class Level: 10-12

Credit: 1/2 unit credit

#### 5450 HOME MAINTENANCE AND REPAIR - I205 (1 term)

Introduction to those essential tasks related to household maintenance and repair. Units in plumbing, heating, electricity, furniture refinishing and repair, basic automotive maintenance, and home maintenance materials are studied. Each unit will involve some shop experiences. This class is intended for students who have not had any other industrial technology courses.

Class level: 11-12

Credit: 1/2 unit credit

#### 5460 MANUFACTURING (1 term)

This application course will provide background knowledge and experience in manufacturing. Product research and development, process research and development, design, company organization, estimating, costing, and marketing are units that will be covered.

Prerequisite: Construction Tools and Materials

Class Level: 11-12

Credit: 1/2 unit credit

## MATHEMATICS

### 1400 INTRODUCTION TO ALGEBRA (2 terms)

A course designed to prepare students for future mathematics courses by developing fundamental math skills needed for those courses. A diverse set of materials will be introduced including real number computation, data collection and analysis, solving equations, problem solving, and geometrical measurement. An integrated curriculum will provide students an opportunity to be introduced to the vast range of mathematical applications.

Prerequisite: Recommendation of the 8th grade teacher

Class level: 9-11

Credit: 1 unit credit

### 1410 ALGEBRA I (2 terms)

The basic structure of algebra is the real number system, which is developed in this course. The other main topics are solving equations and inequalities, factoring, functions, relations, graphs, polynomials, polynomial factors, rational expressions, and open sentence with rational expressions, irrational numbers, quadratic equations, and applications to life problems.

Prerequisite: Recommendation of the 8th grade teacher or Intro to Algebra

Class Level: 9-12

Credit: 1 unit credit

### 1420 INTRODUCTION TO GEOMETRY (2 terms)

The focus of this course is basic skills of geometry. Course topics include angles, lines, triangles, polygons, circles, perimeter, area, surface area, volume, basic trigonometry, and construction techniques.

Prerequisite: Introduction to Algebra I or Algebra I

Class Level: 9-12

Credit: 1 unit credit

### 1430 GEOMETRY (2 terms)

This is a challenging course that focuses on reasoning skills and logic-based argumentative skills. Course topics will include points, lines and planes, perpendicular and parallel lines, identifying and applying congruent triangles, quadrilaterals, proportion and similarity, right triangles and trigonometry, analyzing circles, and exploring polygons and area. Students will also be introduced to the proper format for proof writing.

Prerequisite: Algebra I with a grade of C or better or consent of Department Chairperson

Class Level: 9-12

Credit: 1 unit credit

#### 1440 CONCEPTS OF ALGEBRA AND GEOMETRY (2 terms) (Available in 06-07)

In this course, students will study concepts of both Algebra I and Geometry. Topics will include solving linear and quadratic equations, graphing linear and quadratic functions, plane, coordinate, and solid geometry, right triangle trigonometry, problem solving, and test taking techniques. Students who completed Algebra I and Geometry with above an 80% should not enroll in this course. Students who have completed Algebra II may not enroll in this course.

Prerequisite: 2 mathematics credits

Class level: 10-12

Credit: 1 unit credit

#### 1450 ALGEBRA II (2 terms)

A course in mathematics that completes the basic algebra skills necessary to advance onto college-level math. The course covers the topics of: solving linear equations and systems, solving inequalities and absolute value equations, graphing equations and systems on the TI-83, simplifying exponents and radicals, quadratic equations, complex numbers, matrix calculations, polynomial functions, factoring, sequences and series, and a review of trigonometry. Students will use the TI-83 calculator to enhance instruction and understanding.

Prerequisite: Algebra I

Class level: 9-12

Credit: 1 unit credit

#### 1460 PRECALCULUS (2 terms)

A course in mathematics that deals primarily with functions: polynomial, exponential, radical, rational, logarithmic, and trigonometric. Additional topics include analytic geometry, matrix algebra, right triangle trigonometry, conic sections, vectors, sequences and series, parametric and polar equations, and limits. The course is the foundation to Calculus I, II, and III. (Instruction based on a TI-89 or TI-83 graphing calculator.)

Prerequisite: Algebra II

Class level: 10-12

Credit: 1 unit credit

#### 1470 ADVANCED PLACEMENT CALCULUS (2 terms)

A course in mathematics that deals with basic differentiation and integration techniques. Applications from life sciences, social sciences, business and economics, engineering, and everyday life will be studied. Course includes preparation for the Advanced Placement AB Calculus Exam in May. (Instruction is based on a TI-89 graphing calculator.)

Prerequisite: Precalculus

Class level: 11-12

Credit: 1 unit credit with the opportunity to earn a 3-4 hour college course credit.

#### 1480 ADVANCED PLACEMENT STATISTICS (2 terms)

A course in mathematics that will prepare students for the AP exam in May. The course covers four units: Data Organization, Designing Experiments, Probability, and Inference. The course will provide a rich understanding of data for a student interested in science, business, engineering, or mathematics.

Prerequisite: Algebra II

Class level: 10-12

Credit: 1 unit credit with the opportunity to earn a 3-4 hour college course credit.

#### 1490 DISCRETE MATHEMATICS (1 term)

A one-semester course covering the topics of discrete number systems, mathematical logic, graph theory, discrete sets, and combinations.

Prerequisite: Algebra II

Class Level: 11-12

Credit: 1/2 unit credit

#### 1500 TRANSITION MATH I, II, and III (2 terms)

This course places its emphasis on the review and memorization of basic math facts. Fractions, decimals, percents, and basic computation will also be covered in this curriculum. Using math in the world of work, budgeting, bank accounts, taxes, basic consumerism and other everyday uses of math will be learned.

Class Level: 9-12

Credit: 1/2 unit credit

## MUSIC

### 6100 BAND (4 terms - T, Th, alternate F)

The instrumental music student is provided the opportunities to perform before audiences while developing musical skills on wind or percussion instruments in marching and concert bands. A keen sense of musical value and cooperation is created within the group. Optional areas of participation are offered in pep band, jazz band, and individual instruction.

Class Level: 9-12

Credit 1 credit per year

### 6110 TREBLE CHOIR (4 terms - M, W, or T, Th, alternate F)

Choir is designed to heighten one's musical ability and the ability to function as a member of an ensemble. The student will develop skill in reading music, producing quality sound, and healthy vocal function. Ample opportunity to perform before audiences is provided in this chorus setting.

Class Level: 9-12(females not enrolled in band)

Credit: 1 credit per year

### 6120 ADVANCED TREBLE CHOIR (4 terms - M, W, or T, Th, alternate F)

Advanced Treble Choir is designed to heighten one's musical ability and the ability to function as a member of an ensemble. The student will develop skill in reading music, producing quality sound, and healthy vocal function. Ample opportunity to perform before audiences is provided in this chorus setting. The Advanced Treble Choir will learn difficult music and concepts, building on skills learned in Treble Choir.

Class Level: 10-12 **by auditions only** (females not enrolled in band)

Credit: 1 credit per year

### 6130 CONCERT CHOIR (4 terms - M, W, alternate F)

Choir is designed to heighten one's musical ability and the ability to function as a member of an ensemble. The student will develop skill in reading music, producing quality sound, and healthy vocal function. Ample opportunity to perform before audiences is proved in this chorus setting.

Class Level: 9-12 (all males and all females enrolled in band)

Credit: 1 credit per year

### 6140 MUSIC APPRECIATION (1 term)

Music appreciation offers students the opportunity to explore music from a listener's position. Students will experience music from the sixth century to present day rock and avante garde music.

Class Level: 9-12

Credit: 1/2 unit credit

6150 MUSIC THEORY (1 term)

Music Theory is the study of the elements of music. Students will learn analysis and compositional techniques as well as exercises in ear training and sight singing.

Prerequisite: Band, Chorus or consent of instructor

Class Level: 9-12

Credit: 1/2 unit credit

## SCIENCE

### 2110 INTRODUCTION TO PHYSICAL SCIENCE (2 terms)

Students gain knowledge and insight into the means by which scientific knowledge is acquired. A solid foundation is built for later science courses. Through a well-defined path of student experimentation and guided reasoning, an attempt is made to develop a concept of the physical nature of matter. Methods and activities include laboratory work along with related textbook activities.

Class Level: 9

Credit: 1 unit credit

### 2200 BIOLOGY: A COMMUNITY CONTEXT (2 terms)

This course uses a unique, inquiry-based approach to the study of biology. In this introductory biology curriculum, students will learn basic concepts of biology in the context of their own lives and communities. The course activities encourage student thinking and action, using knowledge of biology as a basic tool for approaching a variety of problems. Topics covered include: Matter and Energy for Life; Ecology; the Biosphere; Heredity; Behavior and the Nervous System; and Biodiversity.

Prerequisite: Introduction to Physical Science

Class Level: 10-12

Credit: 1 unit credit

### 2210 BIOLOGY (2 terms)

The study of living organisms with an emphasis on the chemical and cellular basis of life. Topics of current interest, recent literature, and social implications of new scientific advances will be studied and discussed along with many activities in the laboratory.

Prerequisite: It is strongly recommended that students have a minimum of 78% in IPS

Class Level: 9-12

Credit: 1 unit credit

### 2310 CHEMISTRY (2 terms)

As an introduction to chemistry this course will emphasize proper laboratory techniques, properties of matter, atomic structure, the periodic table, compounds and reactions. Problem solving important to the performance of chemistry is strongly covered.

Prerequisite: It is recommended that a student have taken Algebra II or be concurrently enrolled in Algebra II; additionally, students should have a minimum of 78% in Biology

Class Level: 10-12

Credit: 1 unit credit

## 2320 HONORS CHEMISTRY (2 terms)

As an advanced introduction to chemistry, this course will overview all topics covered in Chemistry with additional topics being incorporated. Honors chemistry is a lab driven course in which students will learn skills required to draw conclusions from information obtained in lab measurements. Students will also develop sound problem solving skills. This course is recommended for students with strong mathematical abilities.

Prerequisite: It is recommended that a student have taken or be concurrently enrolled in Algebra II; additionally, students should have a 90% in Biology or recommendation of Instructor.

Class level: 10-12

Credit: 1 unit credit

## 2350 ADVANCED PLACEMENT BIOLOGY(2 terms) 2nd semester

AP Biology will differ significantly from the first biology course with respect to the level of the textbook used, the range and depth of topics covered, the kind of laboratory activities, and time and effort required of the students. Topics examined will include: biochemistry, survey of plants, animal anatomy/physiology, population biology and genetics, ecology, and behavior.

Prerequisites: Completion of Biology and Chemistry with a grade of B or better or approval of instructor

Class Level: 11-12

Credit: 1 unit credit, with the opportunity to earn college credit or advanced placement in biology

## 2410 PHYSICS (2 terms)

This course is designed to acquaint the student with the basic areas of classical and modern physics. The student studies force, motion, vectors, heat, energy, light, electricity, and sound. Experiments are conducted in order to provide necessary practical experience. The purpose of the course is for the student to discover the basic unity binding all physical phenomena together. Math is used extensively in this science class.

Prerequisite: Algebra II or concurrent enrollment in Algebra II

Class Level: 11-12

Credit: 1 unit credit

## 2420 HONORS PHYSICS (2 terms)

Honors Physics is a fast paced course designed for students who are extremely strong in math and who master science concepts quickly. This course will cover more Physics concepts and require more homework time than the traditional Physics class.

Prerequisite: Completion of Algebra II with a grade of B or better or approval of Instructor

Class Level: 11-12

Credit: 1 unit credit

#### 2460 ADVANCED SCIENCE STUDIES (2 terms)

This course is designed to offer students additional knowledge and experience in both the biological and chemical sciences. The topics covered will be those that usually are not included in the general biology and chemistry courses. This course would benefit a student who wants to study these subjects in more depth. Laboratory skills will be enhanced so that students will be better prepared to handle more rigorous laboratory experiences in the future.

Prerequisite: Biology and Chemistry

Class Level: 11-12

Credit: 1 unit credit

#### 2470 ANATOMY AND PHYSIOLOGY (2 terms)

This course is a comprehensive study of the human organism, including the systemic anatomy and its function, and the basic mechanisms of disease. The focus of the course is providing knowledge and experience for students interested in health related fields, but any students interested in enhancing their biological knowledge would benefit from this course. Laboratory work, including dissections, is an integral part of this course.

Prerequisite: Biology with Chemistry recommended

Class Level: 11-12

Credit: 1 unit credit

#### 2480 CHEMISTRY IN THE COMMUNITY (2 terms)

This course combines the basic concepts of chemistry with a societal point of view. The course activities will demonstrate how all citizens are surrounded by chemistry and how chemistry applies to their daily lives. Topics covered include: Supplying Our Water Needs; Conserving Chemical Resources; Petroleum; Nuclear Chemistry; and the Chemical Industry.

Prerequisite: IPS and either Biology or Biology: A Community Context

Class level: 11-12

Credit: 1 unit credit

## SOCIAL STUDIES

### 3410 WORLD GEOGRAPHY (1 term)

This course focuses on the five themes of geography as well as a region-by-region study of geography of the world. World Geography is intended to provide students with a core knowledge of the geographical regions of the world and to relate that knowledge to events in today's rapidly changing world.

Class Level: 9-12

Credit: 1/2 unit credit

### 3420 WORLD HISTORY (2 terms)

This is a survey course of ancient history from the cradles of civilization to the Industrial Age. The content focus for this course will be on the Ancient Near East, the Greek culture and city-states, the Roman Republic and Empire, the times and culture of Medieval Europe, Byzantine and Islamic Civilizations, Renaissance and Reformation, the growth of European states, the French Revolution and Napoleon, and the West in the Industrial Age.

Class Level: 10-12

Credit: 1 unit credit

### 3430 UNITED STATES HISTORY (2 terms)

This is a survey course of United States History from its European backgrounds to the present. It is designed to fulfill state-mandated requirements, as well as to impart an understanding of the cause and effect relationships of American history. The heritage and development of present day American political, social, and economic institutions is also stressed.

Class Level: 11 (Fulfills Junior history requirement)

Credit: 1 unit credit

### 3440 ADVANCED PLACEMENT UNITED STATES HISTORY (2 terms)

AP United States History offers high school students the opportunity to experience a college level survey course during their junior or senior year of high school study. A strong emphasis will be placed on reading and writing skills. Assignments will include regular text reading, supplemental reading, essay writing, a research paper, and a book discussion. This course will cover the material in United States History in greater detail.

Prerequisite: U.S. History or the consent of the Dept. Chair and the student's counselor

Class Level: 11-12 (Fulfills Junior history requirement)

Credit: 1 unit credit, with the opportunity to earn hours of college credit

### 3450 MODERN AMERICAN HISTORY (1 term)

This class will focus on U.S. History since World War II and the dilemmas facing the U.S. in the modern world. The class will focus on the 1950s, including the growing fear of Communism, and the beginning of the Civil Rights Movement; and the Vietnam War; the 1970s focusing on the Nixon administration and the Watergate scandal, and the cooling of the Cold War tensions; the 1980s emphasizing the Reagan years and the changing U.S.-Soviet relations; the 1990s focusing on the Clinton administration and the changing U.S. role in the world; and finally, current topics of the day as read in newspapers and magazines.

Class Level: 9-12

Credit: ½ unit credit

### 3460 AMERICAN GOVERNMENT (1 term)

American Government is a study of the basic principles of American democracy and will cover the local, state, and national levels of government in America. The course is intended to provide the student with the background to be a responsible political citizen capable of performing as such in the American system and capable of maintaining our American democracy and constitution. Also included are the required tests over the Illinois Constitution/government, the U.S. Constitution/government, the Declaration of Independence, and the U.S. Flag. This class is a requirement for graduation. Beginning with the class of 2008, this course will be offered at the sophomore level.

Class Level: 10 + 12 for 2005-06 (required)

10 starting with the class of 2008

Credit: 1/2 unit credit

### 3470 PSYCHOLOGY (1 term)

Students will learn that through the study of psychology they can unlearn incorrect notions about behavior and be more scientific and sensitive in understanding their lives and careers. Students will learn about psychology by meeting the four basic goals of this course:

1. To acquire basic knowledge about behavior for its own sake.
2. To apply basic knowledge to clinical situations.
3. To apply basic knowledge to specific situations.
4. To apply basic knowledge to social problems.

Class Level: 11-12

Credit: 1/2 unit credit

### 3480 SOCIOLOGY (1 term)

Sociology is about people - how they act, react, and interact both in their everyday lives and under extraordinary circumstances. It is about their thoughts, feelings, and ideas. Sociology is about the social contexts - groups, neighborhoods, cities, even whole societies - in which these thoughts, feelings, and ideas are formed. Sociology is about social life itself. This is a college prep course.

Class level: 11-12

Credit: 1/2 unit credit

### 3490 ECONOMICS (1 term)

High school courses in economics do much more than investigate how the economic system works; they aim at the goal of helping students forge linkages between economic issues and their own lives. This course focuses on the following interrelated content areas: basic economic principles; the American business structure; economic performances; GNP and fiscal policy; money, banking, and monetary policy; problems on the home front; the international picture; and personal economics. In each area, the course stresses the active role of the individual and provides, whenever possible, practical techniques that students can use to relate economics to their own lives. This course fulfills the state graduation requirement for consumer education.

Class Level: 11-12

Credit: 1/2 unit credit

## STATE MANDATED COURSES

### PHYSICAL EDUCATION

6500 Boys Physical Education

6600 Girls Physical Education

These courses are designed to develop neuro-muscular skills, to develop proper health attitudes and habits, to stimulate interest in sports, which will carry over into adult life, and to provide opportunities for the development of desirable character traits. Activities are arranged seasonally.

Class Level: 9-12 (Required)

Credit: 1/2 unit per term (does not count toward class standing or honor roll)

\*11th and 12th grade students may be excused from taking physical education if they meet one of the following criteria:

1. The student is determined to be participating in interscholastic athletics as certified by the appropriate district personnel. (Granted only while a junior or senior is an active member of an athletic team.)
2. The student provides written evidence from an institution of higher education that a specific course not included in existing state or local school minimum graduation standards is required for admission to either the institution or the planned curricula of the student. School district staff must verify that the student's present and proposed schedule will not permit completion of the needed course.
3. The student lacks sufficient course credit of one or more courses required by state statute or local school board policies for graduation. Students who have failed required courses, transferred into the district with deficient credits or who lack credits due to other causes will be eligible to apply for this exemption.

Each request for exemption from physical education instruction is to be verified and eligibility determined on a case-by-case basis by school district staff (counselor and/or principal).

## 6700 DRIVER EDUCATION (1/2 term)

Instruction is aimed at attitude and skill development conducive to safe and courteous driving. The classroom phase consists of 30 clock hours of instruction. The behind-the-wheel phase consists of six clock hours of actual driving with additional hours of observation. Verification of attendance is mandatory as prescribed by the State of Illinois for successful course credit. In the driving phase of Drivers Education, some students may proficiency out of the final three hours of driving, but must still pass the same final exam given to students who have completed the full six hours of driving.

Class Level: 9-11 (Required)

Credit: 1/4 unit credit

Any student attending Prairie Central High School who wishes to take Driver Education must meet one of the following criteria:

1. The student must receive a passing grade in at least four credits over the previous two semesters before enrolling in Driver Education; or
2. In the case of dropouts, they must receive four credits in the last two semesters and must be sixteen years of age before they would be eligible to enroll: or
3. The superintendent of schools may waive the four credit requirements when there are extreme financial, economic, or personal circumstances warranting such a waiver.

In the case of a freshman, transcripts from junior high school may be evaluated for eligibility to enroll in Driver Education.

If the student is home-schooled, the individual responsible for the education of the student must certify that the courses being considered were passed successfully. This certification must be in writing and notarized, preferably at the district office.

All students meeting these criteria will be placed in classes first, by their age (oldest to youngest) and second, by the classroom space available.

## 6750 HEALTH (1 term)

Health education is a nine-week course offered for all freshmen at Prairie Central High School. This required course will stress various areas of health principles. Included will be units encompassing hygiene, substance abuse, sex education, and AIDS and other communicable diseases. Development of attitudes and behavior patterns, favorable mental, physical, and social well being will be emphasized.

Class Level: 9 (Required of all 9th graders)

Credit: 1/2 unit credit

## 6800 RESOURCE MANAGEMENT (1 term)

Individual economic roles of earning income, consuming, and performing as a citizen-voter are examined. Special emphasis is placed on the consumer activities of buying, saving, borrowing, and investing. Practical skills such as classifying advertising, filling out and filing forms, and balancing checking accounts are reviewed. This course fulfills the state graduation requirement for consumer education.\*

Class Level: 10-12

Credit: 1/2 unit credit

\*Students may proficiency this course by successfully taking and passing a state-drafted Consumer Education test. The Guidance Department will provide information. This requirement can also be met by completing the Social Studies Economics class or the Ag Economics class.

I.C.E. (INTERRELATED COOPERATIVE EXPERIENCE)  
7000/7100/7200 CLASSROOM/WORK-SITE PLACEMENT

A supervised cooperative educational program designed to provide on-the-job training toward employment. One period is designated for classroom training with released time for skill training.

Application is required. The instructor and the administration must approve acceptance. A student on the I.C.E. program must be enrolled in two other academic subjects.

Class level: 11-12  
Credit: 4 credits per year

7500 DUAL-CREDIT COURSES FROM PARKLAND

Students can receive credit at Prairie Central High School and at Parkland College for the same class. The classes are offered by interactive video, which means you take them in real-time and can ask questions and discuss with the Parkland class. This cutting-edge technology uses two-way cameras to put you in the classroom at Parkland while being in the distance learning lab at Prairie Central High School. Information about the class offering are available in the Guidance Office.

Class Level: 11-12  
Credit: 1/2 unit credit

9110/9120/9130/9140 COMMUNITY-BASED PROGRAM I,II,III,IV

Participation in the Community Based class is recommended at the students' individual education plan meeting. The competencies taught are in three curriculum areas: daily living skills, personal-social skills, and occupational guidance and preparation. Participation is open to high school students and graduation is based on accomplishment of goals in the individual education plan.

Class Level: 9-12  
Credits: 4 credits per year

9200/9210 COMMUNITY-BASED WORK PROGRAM

A supervised cooperative educational program designed to provide on-the-job training towards permanent employment. Participation will be determined at the annual review for the Individual Educational Plan.

Class Level: 9-12  
Credits: 2 credits per year

C.V.E.(COOPERATIVE VOCATIONAL EDUCATION)  
9300/9310/9320 CLASSROOM/WORK-SITE PLACEMENT

A supervised cooperative educational program designed to provide on-the-job training toward employment. One period is designated for classroom training with released time for skill training.

Participation will be determined at the annual review for the Individual Education Plan.

Class Level: 11-12  
Credit: 4 credits per year

## LIVINGSTON AREA VOCATIONAL CENTER

Courses at the LAVC are available to P.C.H.S. students. Each course has its own prerequisites, but generally junior status in high school and age sixteen are the primary requirements. The Guidance Office can be contacted for further information and/or application papers. \*Enrollment in this course counts toward Tech Prep student identification.

Class Level: 11-12

Credit: 4 credits per year

### 8050 AUTOMOTIVE MECHANICS I AND II

This course combines technical background information taught in the classroom with practical experience in the shop. Students receive training in diagnosis, repair, and routine service on all makes of late model automobiles. Instruction includes electronic test equipment used in industry, the use of technical manuals, and up-to-date hand and power tools. Students work on components, test engines, and "live" vehicles to make their training as realistic as possible. Engine, drive train, chassis and suspension, and related areas are covered in this program. Upon completion, a graduate will be prepared for entry-level employment or further training in the area of auto mechanics. (2 hours per day; 2 year program)

### 8250 CONSTRUCTION AND BUILDING TRADES I AND II

This course gives students an opportunity to learn how to build a house. The student is exposed to every aspect of the construction of a home. Students are taught concrete work, brick and block masonry, framing and finish carpentry, drywall application and finishing, and wiring and painting. Related instruction in blueprint reading, measurement, trade terminology, safety, correct work procedures, and the sequences of construction and occupational information prepares the student for the practical aspects of the various construction trades. Development of personal attributes such as leadership, initiative, and independent responsibility are emphasized. (2 hours per day; 2 year program)

### 8150 COMMERCIAL ART I AND II

This course is designed to give the student a basic knowledge of the commercial art field and to provide him with the skills necessary for conceiving and creating artwork for a variety of promotional items used in the advertising industry. Instruction is geared to a variety of organized learning experiences including lettering, advertising designs and illustrations using such art media as pencil, ink, watercolor, acrylics, air brush, etc. A unit on photography is also included. Upon completing the course, the student will be able to recognize and identify quality design and artwork and create, design, and finish simple advertising and promotional materials. (2 hours per day; 2 year program)

### 8350 DRAFTING I AND II\*

This course is designed to give the student a well-rounded knowledge of the technical drawing field. The first semester is devoted to fundamentals dealing with the development of techniques, construction, and visualization. The second semester deals with the expansion of the first semester into the different drafting conventions. The second year of the course deals with specialization in either mechanical drawing and design or architectural design depending upon the student's interest. Students are encouraged to develop techniques, accuracy, speed, and problem-solving abilities. (2 hours per day; 2 year program)

## 8550 ELECTRONICS I AND II\*

This study of electricity and electronics combines theory, demonstration, and experimentation to assure a thorough understanding of the principles involved in the assembly, installation, testing, and maintenance of electrical systems. Practical application of the principles involved develops skills through trouble shooting electrical and electronic devices. Areas of instruction include the nature of electricity, safety, blueprint reading, residential wiring applications, measurement, vacuum tube and semi-conductor electronics, AM, FM and TV transmitter and receiver circuits, and other electrical theory. (2 hours per day; 2 year program)

## 8400 FOOD SERVICES I AND II

This course consists of theory and laboratory work relating to the planning, selecting, purchasing, preparing, and servicing of foods. Included is the study of nutritional values, processing, quantity cooking, storing equipment, sanitation, and management. Instruction is geared to prepare students for entry into such occupations as baker, chef, cook, and meat cutter, or in services such as bus boy, waiter, or waitress. For added experience, food preparation on special order is done for people or groups in the area. (2 hours per day; 2 year program)

## 8450 HEALTH SCIENCE TECHNOLOGY — EMT

Emergency Medical Services personnel handle the critically ill and injured. This one-year course emphasizes the development of skills in assessment of illnesses and application of proper emergency care procedures. Program includes theory, lab and clinical experiences offered through OSF and local EMS providers. This course is only offered to Seniors and meets Federal and State guidelines for basic EMT training. Students who successfully complete this course will be able to take the Illinois State of national Registry EMT-Basic licensure exam. For students interested in Health Science, this class prepares individuals for immediate employment and is a great introduction to the fast pace of Emergency Medicine. (2 hours per day; 1 year program)

**Separate Application required before admittance. Available February 1, 2005.**

## 8500 HEALTH SCIENCE TECHNOLOGY — CNA\*

Juniors and Seniors interested in healthcare careers are offered this one-year program. The purpose of the course is not only to prepare students for entry-level employment positions, but also to offer an opportunity to observe a variety of career options. Basic Anatomy & Physiology, Medical Terminology and skills are taught in the classroom setting. Clinical experiences vary in the local area beginning in October, lasting two days per week until May. Interested and successful students can take the Illinois state written examination to earn their Certification as a Nurse Assistant and begin working, or continue their education in areas including Nursing, Radiology, Lab, Pharmacy, Physical Therapy and many other options. In a society with a growing demand for healthcare workers, this class has a lot to offer students interested in Health Science. (2 hours per day; 1 year program)

## 8700 WELDING I AND II

This two-year program is designed to provide the student with the knowledge and the skills in the form of procedures and techniques. Upon successful completion of the program, the student will be able to demonstrate those necessary skills both cognitive and manipulative so that they may obtain entry-level employment. The first year is aimed at introducing the basic skills and techniques required to work safely and efficiently with the various tools associated with welding. The types of welding introduced are DAW, SMAW, and BMAW. The second year is aimed at more intense study and practice of these techniques and in various new procedures and processes that a student might be exposed to upon graduation. Shop related work is aimed at learning and mastering the various skills required in welding. Field trips and lectures will be utilized to provide experiences related to working conditions and opportunities in this field. (2 hours per day; 2 year program)

## 8600 OFFICE INFORMATION PROCESSES I AND II

Office Information Processing prepares students for entry-level careers in the office field. Students will be oriented to office skills and essential work attitudes and ethics to become a successful and productive employee. The most current technology is utilized with DOS and WINDOWS based operating systems, and the most current software packages are used throughout this course. Basic business mathematics, business English, advanced office keyboarding, reprographics, and desk-top business machines (dictaphone, electronic calculator, typewriter) will be utilized. Units on values and setting goals, learning styles, human relations, proofreading, records management, mail procedures, telecommunications, business etiquette/dress, and sexual harassment will also be integrated into this course. Guest speakers from various businesses and post-secondary institutions will speak on employment opportunities and needs. Each student will develop a portfolio of employment forms. An office simulation project is used to incorporate many of the skills learned and self-paced, individual work is stressed and encourage.

The second year of this program stresses employment opportunities and advanced office skills. Students work in an office environment, and along with enhancing their business skills, work for individuals on various business assignments. (2 hours per day; 2 year program)

## 8650 COMPUTER INFORMATION PROCESSES I AND II\*

Computer Information Processing prepares students for entry-level careers in the computer field. Students will be oriented to computer skills and essential work attitudes and ethics to become successful and productive employees. The latest technology is utilized with DOS and WINDOWS based operating systems. Word processing, database, spreadsheet, and desktop publishing applications are taught utilizing current software packages. Units on values and setting goals, learning styles, human relations, proofreading, records management, telecommunications, business etiquette/dress, and sexual harassment will also be integrated into this course. Guest speakers from various business and post-secondary institutions will speak on employment opportunities and needs. Each student will develop a portfolio of employment forms. This course will culminate with a business simulation where each student will develop their own business forms, job descriptions, personnel forms, and other business-related documents where self-paced, individual work is stressed and encouraged.

The second year of this program stresses employment and advanced computer skills. Students work in a business environment, and along with enhancing their computer skills and knowledge, work for individuals on various computer assignments. (2 hours per day; 2 year program)

Personal typing, typing I, or ability to keyboard information is recommended but not required.

## 8850 CHILD CARE I AND II

The Child and Day Care Services program is designed for students interested in child care occupations. Students investigate issues of safety, health and nutrition, and state standards regulating child care. This program is a balance of classroom and laboratory experience with pre-school children which helps high school students develop competencies needed for successful employment or related post-secondary training in the field of child and day care services.(2 hours per day; 2 year program)

## 8900 LAW ENFORCEMENT I AND II \*

The Law Enforcement/Police Science Program is designed to prepare students to enter the field of law and law enforcement. the sequence of courses will provide students with the opportunity to become knowledgeable in a variety of skills associated with the law enforcement area. Classroom instruction will include simulations, demonstrations, tours, and local shadowing. They will be introduced to patrolling techniques, field operations, observations and perceptions, and communication skills. Training received in this program may be used as a basis for entry level into the labor market or for further training at a postsecondary agency.(2 hours per day; 2-year program)

**Separate application for Law II admittance. Application available February 1, 2005.**

## 8950 CISCO - COMPUTER NETWORKING

The CISCO - Computer networking course is designed to give students hands-on applications, and Internet driven lessons to gain experience in network design., configuration, wiring, and setup. The students that successfully complete this two (2) year program will be able to pursue the Cisco Certified Networking Association certification. Also this course will be articulated with the local junior college. Each student should successfully design, build, and maintain small to medium-sized networks. This program will give students the opportunity to enter the workforce and/or further their education and training in the computer networking field.(2 hours per day; 2-year program)

Prerequisite: Geometry and/or Consent of the Administration  
Extensive reading is required for this course.

## 8960 COMPUTER MAINTENANCE + REPAIR

The Computer Maintenance + Repair course provides instruction in the area of maintenance and repair of computer and computer related equipment. Students will also receive some instruction on installing and servicing networks, repairing or replacing faulty mechanical or electronic parts, and giving technical advice on ways to keep equipment in good operating condition. A solid foundation of theory on how a computer and other peripherals work is covered. Students will participate in building the PC they will use for the course. Customer service, work orders, and technical reports will be reviewed in detail and practical experiences will be utilized. The development of employability skills, as well as transition skills and vocational ethics, will be included in the course. (2 hours per day; 2 year program)

Prerequisite: Strongly Recommended - One year of computer applications,  
Extensive reading is required for this class.