

DELAVAN
HIGH
SCHOOL

2009-10

COURSE
DESCRIPTION
BOOKLET

*This is a tentative copy of the Course Description Book.
There will be changes and updates at a later date.*

Delavan High School insures equal educational opportunities to students, regardless of race, color, national origin, age, gender, religion or disability. Questions in reference to educational opportunities may be directed to the Principal, responsible for sex equity (Title IX) handicapped (Sect. 504) and minorities (Title VI).

This course description guide is designed to aid you in selecting the courses you would like to take while you are in high school. Its purpose is to give you a brief description of the various courses offered in high school. Each course description also gives information such as what year or years it is recommended the course be taken, whether it is an one-semester or a full-year course, the amount of credit for the course, and the prerequisite for the course if any. This guide is grouped according to the department in which the course is offered. You should study the course offerings suggested on the following pages to help you select the courses you might be interested in taking and then read the course descriptions. You should also look at more than one year's program if you are an underclassman to determine your course selections for the following year. It is a good policy to meet with the guidance counselor to work and plan your complete high school program, but if you have problems, it is a necessity to make an appointment as soon as possible.

GRADUATION REQUIREMENTS

A. All students must earn a minimum of twenty-five (25) credits. As part of the required credits to graduate all students must acquire passing grades in the following courses:

- English 4 credits (Eng. 1-3, College Prep, Vocational English)
- Fine/App. Art 3 credits (voc., music, art, foreign language)
- Science 3 credits (2 years lab science for continuing education)
(Starting with the Class of 2012, Science Seminar will be required)
- Social Studies 2 credits (1 credit US, 1 credit Social Studies Elective)
- Mathematics 3 credits (1 must be Alg 1 and 1 which must include geometry)
- Computer Application 1 credit
- Civics .50 credit starting with Class 2010
- Consumer Ed. .50 credit or Pass Proficiency Exam
- Health .50 credit
- Driver's Ed. .50 credit
- Physical Education 4 years
- In addition to the above-required credits, no student shall receive a Certificate of Graduation without passing a test on the Constitution of the United States of America and the Constitution of the State of Illinois.

B. **GRADE CLASSIFICATION**-Students will be classified according to credits earned:

	<u>Class of 2010</u>	<u>Class of 2010</u>	<u>Class of 2011</u>	<u>Class of 2013</u>
Freshman	under 6	under 6	under 6	under 6
Sophomore	6	6	6	6
Junior	12	12	12	12
Senior	18	18	18	18

C. Driver education must be taken by all students and .50 credit will be given towards graduation. Any community member (public, private or home schooled student) over the age of 15 and under the age of 16 can enroll in this course. Class placement will be determined by date of birth.

D. Physical education is required of all students for four years unless excused by a doctor's permit, or an application for exemption has been completed and approved by an 11th or 12th grader for any of the following exemptions:

1. Taking 7 subjects & a participant in inter-scholastic athletics.
2. Taking 7 subjects - one of which is required for graduation which is taken during the time a P.E class is offered (schedule conflict).
3. Taking 7 subjects - one of which is a required course for admission to a post-secondary institution and it is taken during the time a P.E. class is offered (schedule conflict).

E. **SCHEDULE CHANGES**-No schedule changes can be made without counselor approval and parent permission. All schedule changes must be completed within the 1st week of the new semester.

F. **EARLY GRADUATION**-When a student has met the preceding requirements for graduation or the requirements for "early graduation" he/she will be awarded a high school diploma. It is each student's responsibility to keep informed of all graduation requirements and his or her progress toward a diploma. All students should have periodic meetings with the counselor to make sure that all requirements for graduation are being met. A student wishing to graduate early must petition the high school principal with said request by May 1st of the year preceding desired graduation.

Students who elect to graduate early will: (A) Have their grades reported simply by grade point average for the number of semesters in attendance to anyone requesting them; (B) Not be allowed on the senior class trip, attend the prom, or school parties.

POLICY REGULATING FULL-TIME STUDENTS

A student enrolled at Delavan High School will be a full-time student. A full-time student is identified as enrolled in six academic classes or credits plus P.E. each school year.

Exceptions to this policy are:

- a. Married students or students with dependents
- b. 5th year HS student

These exceptions are not automatic and will be treated on an individual-request basis.

PROGRAM FOR THE COLLEGE-BOUND STUDENT

If a student plans to attend college, the earlier he/she makes his/her decision, the better. High scores on standardized tests taken during the junior year, such as ACT and SAT are usually required for securing college entrance. In addition, a class rank within the upper half is recommended. It is also recommended but not required everywhere that a typical college-bound student program includes:

4 credits of English,	3 credits of social science or history
3 credits of math, algebra and beyond	3 credits of science
2 credits of Foreign Language, Music, Art or Vocational Education	

Specific requirements differ among colleges and information on the school you wish to attend may be obtained from the counselor.

PROGRAM FOR THE VOCATIONAL STUDENT

Students who want to enter "the world of work" upon graduation will find several opportunities to prepare them including but not limited to programs in industrial arts, agriculture, home economics, and business. Students should consult the guidance counselor for further information.

INDEPENDENT STUDY

Independent study is designed for those juniors and seniors who have completed the sequence in an academic area with a "B" average. Students will be allowed to contract one (1) independent study or .50 credits per semester. A contract must be completed and signed by the student, sponsoring teacher, guidance counselor, parents, and principal. At the end of the semester, a typed two-page summary must be completed before credit is granted. All applications are due by May 1 to apply for the next school year. Special instructions are to be designed by cooperating teachers.

**THE FOLLOWING CLASSES WILL BE OFFERED FOR CREDIT TO DELAVAN
HIGH SCHOOL STUDENTS.**

ENGLISH DEPARTMENT

Two years of writing-intensive courses are required. One year must be offered as an English language arts course and the other year one can be fulfilled in another area if applicable.

English 1 (1 cr) This course uses literature and composition skills together. Students will practice analysis of literature and study literature as models in order to apply thought organization for formal themes and papers. Understanding a novel, short story, essay, drama & writing of expository and argumentative essays will refine English skills. A review of grammar, usage, punctuation, capitalization, and editing skills will be incorporated.

English 2 (1 cr) This is also a writing intensive course which encompasses several small research papers throughout the year and a unit, both semesters, on writing in different genres (i.e. personal narrative, descriptive and persuasive writing). Students also strengthen their writing skills fourth quarter by participating in a secondary level created writer's workshop where the students write, research, peer edit and revise their writing selections. These selections are then published in a student created anthology.

English 3 (1 cr) This course is a study of literature, composition, and oral communications; literature will involve the study of an American novel, short stories, poetry, and a major dramatic work. There will be a continued building of composition skills, spelling and vocabulary.

College Prep (Sr-1 cr) This is a challenging class for seniors heading to college after graduation. It will be structured as a college course with heavy emphasis on reading, analyzing and writing in response to thought-provoking literature. Students will read several novels, nonfiction essays and short stories. **Daily class discussion is a fundamental part of the course, and is essential to student learning.** There will be a heavy emphasis on writing in response to a variety of genres; students will regularly use MLA style. This course fulfills the 4-year public education requirement for college-bound students.

Vocational English (Sr-1 cr) This is a class for seniors who plan to enter the world of work after graduation. Students will create a resume and cover letter, and will learn about workplace ethics, communication and diversity. They will also attend a mock interview and job shadow at the business of their choice. The course includes a public speaking unit, several short novels, research projects, and regular participation in class discussion.

SCIENCE DEPARTMENT

Science Seminar (Fr-1 cr) A two semester, laboratory science course designed to introduce 9th grade students to various scientific disciplines including Scientific and Technological Design, Chemistry, Life Science, Earth Science, Physics and Astronomy. Students will learn fundamental concepts while engaging in laboratory exercises designed to promote critical thinking.

Biology (So-1 cr) Biology surveys the various areas of life sciences with particular emphasis placed on observation & interpretation of data. Some topics covered include ecology, atomic structure, cell structure, cellular metabolism, genetics, scientific methods, evolution and a Survey of Animal Kingdom.

Chemistry I (So, Jr, Sr-1 cr) (Pre-requisite: 1 credit in biology & 1 credit in algebra I with a "B" grade) A course geared for primarily college-bound students. Topics will include atomic structure, chemical bonds, kinetic theory, solids, liquids, gases, solutions, and labs to be included with demonstrations.

Chemistry II (Jr, Sr-1 cr) Offered ODD YRS (Pre-requisite: 1st semester "B" average in Chemistry) This course is designed for the student who is planning to go to college and major in science or science related field. Topics covered will include: Alkanes, Alkenes, Alkynes, Benzene, Colligative and Colloidal properties, Reaction Rate, Chemical Equilibrium, Acids, Bases, Oxidation Reduction, Electro chemistry, Nuclear Chemistry, Organic Chemistry & Biochemistry. 1-year lab included. Required: Independent Research Project.

Human Anatomy and Physiology (Jr, Sr - 1 cr) Offered EVEN YRS (Pre-requisites: Biology and Chemistry I, with grades of B or higher in both, or consent of instructor.) This course will be offered every other year alternating with Chemistry II. This course intends to provide students with the fundamental concepts of human anatomy and physiology. It will prepare students for higher levels of education or to enter a health related profession. The curriculum starts at the cellular level and moves through each system and includes a study of the anatomy, physiology, and disorders of that system. Lab work is included. Required: Independent Research Project.

Physics (Jr, Sr - 1 cr) (Pre-requisite: Algebra I & II and Geometry with "B" average in Algebra II) General physics survey covering velocity, acceleration, curved motion, energy, heat, light, sound, electricity, and magnetism. Nuclear physics and relativity will be discussed in the course if time permits. There is a heavy premium on sound mathematical skills. Labs and demonstrations will be incorporated into the curriculum.

Independent Research Project (Must have approval of instructor prior to sign up) Must have a sincere desire to carry out a research project. Deadlines and requirements must be met in order to obtain credit. Work will be graded.

MATH DEPARTMENT

Math Concepts (Fr - 1 cr) This is a one-year course providing the students with the necessary knowledge in elementary math to perform daily operations dealing with math. During the year, a constant upgrading and mastering of basic skills are stressed. The basic skills involve whole numbers, decimals, and fractions.

Pre-Algebra (Fr - 1 cr) This course will cover fundamentals of algebra such as working with functions, solving equations, solving inequalities, and graphing linear equations. Useful skills and applications of everyday life will be covered. Coverage will include operations with whole numbers, fractions, decimals, percentages, integers and rational numbers. Basic concepts of geometry are included.

Algebra I (1 cr) (Pre-requisite: recommendation of math instructor & test scores) This course covers the study of symbols and sets, variables and open sentences (linear and quadratic), problem solving, and inequalities. Special attention is given to polynomial functions, graphs, and real numbers.

Applied Geometry (So, Jr, Sr-1 cr) (Pre-requisite-passing Alg I) Study the fundamental concepts of Euclidean Geometry; points lines, planes, triangles, polygons, and circles. Area, perimeter, and volume formulas will be covered in this class. The application of these concepts will be applied to real world problems. This class will not include formal proofs.

Geometry (Fr, So, Jr, Sr - 1 cr) (Pre-requisite: passing Alg I with a "B" or higher) Geometry is an one-year course consisting of an explanation of the metric postulates, a study of mathematical descriptions and models, a study of clarity and accuracy of language, and a study of congruence relationships and direct applications of each.

Algebra II - Trigonometry (So, Jr, Sr - 1 cr) (Pre-requisite: passing Algebra I with grade of C or higher) Algebra II is a course designed to give a comprehensive review of the basic concepts of elementary algebra, an introduction to trigonometry, and applications of each of the above.

Pre-Calculus Math (Jr, Sr - 1 cr) (Pre-requisite: Algebra I & II, Geometry with a "B" or higher average or by consent). This course completes the student's preparation for a sound course in calculus. This course is for seniors and should be taken only by those students who plan to pursue mathematics beyond high school, (especially calculus). It requires self-reliance, a willingness to work hard, genuine interest and motivation, sound skills in Algebra II and Geometry, and high potential in mathematics. The course consists of a study of analytical geometry and an in depth study of algebra and trigonometry.

Online ICC classes are offered as dual credit classes-students will have to pay tuition to ICC to receive credit.

College Algebra-Math 115 (Jr, Sr-.50 cr) (Pre-requisite: Alg I, II, Geo and an appropriate score on the math placement test) This course reviews and expands topics included in Alg I and Alg II. Additional topics will enhance the student's level of understanding and skill in Algebra.

College Trigonometry-Math 120-(Jr,Sr-.50 cr) (Pre-requisite:Alg I, II, Geo and places in course with ICC Placement test) This course includes a study of the trigonometric functions and their graphs, radian measure, inverse trigonometric functions, solutions of triangles, trigonometric identities and equations, and roots of complex numbers.

SOCIAL STUDIES DEPARTMENT

World History (So - 1 cr) World History from the Renaissance to the present will be studied. Emphasis will be places on Western European history, but students will also be exposed to the religious, cultures, economics and governments of the other inhabited continents which are housed on the planet earth. Students will be required to analyze information, come to logical conclusion, as well as show knowledge of historical facts.

U.S. History (Jr - 1 cr) A basic course in history of the US from the time of Reconstruction to the present. Emphasis will be placed on wars, presidential elections, the industrial revolution, unions and growth of America. Activities will include map study skills, and interpreting historical documents, etc. Students will acquire the knowledge needed to carry out responsibilities & protect their rights as citizens of the US.

World Geography (Jr, Sr – .50 cr) This semester course is designed to acquaint students with cultures from around the world. World history focuses on European history and its influence on the US while world geography explores the five major themes of geography (locations, place, region, movement and human-environment interaction) from the perspective of the people who live on the seven continents of the earth. Students will become familiar with mapmaking skills, cultural diversity, foods and pastimes of people from other parts of the world. Several projects are required as a part of this course.

Current Events (Jr, Sr-.50 cr) This course is designed to encourage students to gain knowledge of current world events. There will be class discussions on issues including politics, social issues and religious disputes. Students will be required to read current newspaper articles relating to world issues; define global issues; describe conflicts; and analyze current historical trends. Assessment will include discussion, essay, and map work as well as more formal tests and quizzes.

Civics (Jr-.50 cr) This class is required to graduate starting with Class of 2010. The class will focus on the structure and operation of the federal, state, and local government. Topics will include: the federal and state constitutions, political parties and their functions, comparative political systems, and the impact of our government.

Sociology (Jr, Sr-.50 cr) This semester course is designed to acquaint students with Sociology, the study of groups in society rather than the individual in society. The purpose of this course is to help students understand why we (humans) act and behave in a certain way. We will examine how the different social structures we are a part of affect our beliefs and behaviors. This course will encourage students to think critically, encourage open mindedness and encourage curiosity.

FAMILY & CONSUMER SCIENCE

Introduction to Family and Consumer Science (1 cr) This course introduces the student to the field of Family & Consumer Science. It focuses on the total well being of the person in order to develop a healthy, well-adjusted, self-confident individual, family member and worker. Units of study include: healthful lifestyles, decision-making, goal setting, relationship skills, human development and parenting, food principles and preparation techniques, design theory relating to clothing construction and interior design, and career preparation. Students will also have the opportunity to participate in FCCLA (Family, Career, and Community Leaders of America) activities.

Clothing and Textiles I (So, Jr, Sr-.50 cr) (Offered ODD YR) This course provides knowledge and understanding of textiles, fashions and fabrics in meeting the clothing and fabric/fashion produce needs of individuals, families, and the general public. The course content centers around developing competencies in: selecting clothing and textile products; meeting social, physical, psychological and economic needs in evaluating, selecting and caring for clothing and textiles; appraising clothing/textile products contributing to health, safety and comfort; maximizing resources in selecting, constructing, altering, repairing and remodeling clothing/textile products; communicating intended clothing image to others, and approving decisions necessary for clothing and textile needs. Information on jobs and careers are included throughout the course. Clothing construction techniques will be introduced. Students will have the opportunity to participate in FCCLA activities.

Clothing and Textiles II (Jr, Sr-.50 cr) (Prerequisite : Clothing and Textiles I) (Offered ODD YR) This course increases the level of knowledge and skills of students as they construct, purchase, care for, and work with clothing, accessories and textiles. The ways in which personal considerations and fashion trends interact with the market are explored in this course. Broad areas study include: opportunities in clothing, accessories, and textile products fields; fibers and fabrics; color, line and design in fashion; clothing selection, consumer information, clothing maintenance and care; sewing and construction skills and merchandising. Information on careers will be included throughout the course. Students will have the opportunity to participate in FCCLA activities.

Child Development (Fr, So, Jr, Sr-.50 cr) (Offered *ODD YR*) This course emphasizes knowledge and understanding of the intellectual, emotional, social and physical development of children from conception through adolescence. The course emphasizes managing and organizing child development by applying decision-making and goal-setting skills; promoting child development by applying physical, social, intellectual and emotional principles; practicing health and safety standards for children, encouraging human relations skills in children, and evaluating family and career changes in relation to the impact on children. Student observations of and laboratory experiences with young children may be a part of this course. Students will also have the opportunity to participate in FCCLA activities.

Parenting (Fr, So, Jr, Sr-.50 cr) (Offered *ODD YR*) This course helps students understand the responsibilities, satisfaction and stresses of parenthood. Many types of parenting situations are examined. Stress prevention and management are emphasized. Course content includes: managing and organizing parenting by applying decision-making and goal-setting skills, applying the basic principles of the parenting process; practicing health and safety standards as related to parenting; and evaluating the impact on parenting of family and career changes. Attention is given to mate selection and the importance of readiness for parenthood. Student observation of and laboratory experiences with children may be a part of this course. Students will also have the opportunity to participate in FCCLA activities.

Child Occupations I (Jr, Sr -.50 cr each) (Offered *ODD YR*) This course sequence provide students with opportunities to initiate and direct a variety of activities for groups of children in a childcare lab or extended classroom setting. Basic program planning, caring for the special needs child, selection of materials and equipment, establishment of a cooperative relationship with teachers, parents and community services for children will be included. Emphasis is placed on career opportunities, communication skills, human relations and the needs of children. This course will provide students with the opportunity to develop additional competencies in planning, implementing and evaluating activities suitable for young children. Laboratory experiences will be offered through an in-school program, or through supervised placement in kindergarten or lower-elementary grades. Students will have the opportunity to participate in FCCLA activities.

Foods and Nutrition I (So, Jr, Sr -.50 cr) (Offered *EVEN YR*) This course includes the basic classroom and lab experiences needed to develop a knowledge and understanding of basic food principles and nutrition for people of all ages. Course content includes: food serviced and preparation management; meeting basic needs by applying nutrition concepts; food safety and sanitation; meeting health and safety needs in planning, preparing and serving food; maximizing resources when planning/preparing/serving food; promoting hospitality in food practices; and analyzing individual and family nutritional needs. Information related to careers in foods and nutrition is included throughout the course. Student will have the opportunity to participate in FCCLA activities.

Foods and Nutrition II (So, Jr, Sr -.50 cr) (Prerequisite: Foods and Nutrition I) (Offered *EVEN YR*) This course centers on food selection and preparation for special circumstances and dietary needs. Laboratory sessions are devoted to preparation of foods with specific characteristics. Course content includes: careers in foods and nutrition; influences on food customs; diet and health; current nutritional issues; special food needs; review of food safety and sanitation; food purchasing; and improving skills in food preparation techniques. There is an emphasis on food service and hospitality occupations. Students will have the opportunity to participate in FCCLA activities.

Adult Living (Jr, Sr -.50 cr) (Offered *EVEN YR*) This course is designed to assist individuals and families in achieving life satisfaction through responsible participation as adults in the home, community and workplace. Emphasis is placed on the development of prevention strategies which will assist individuals in responding to situations in terms of their identified values and goals. Course content includes: development of short-and long-range plans, demonstrating goal-setting and decision-making skills; recognizing and following healthy lifestyle practices; selecting and using resources to enhance individual growth and development; developing communication skills; and evaluating family and career changes. This course helps students identify resources that will assist them in managing life situations.

Living Environments (Jr, Sr-.50 cr) (Offered *EVEN YR*) This course provides basic knowledge and skills needed to select, acquire, maintain and manage living environments that meet the needs of the occupants. The selection and care of housing and furnishings are related to factors such as social-economic conditions, individual tastes, psychological effects, aesthetic values, safety, and sanitation and energy conservation. This course will include areas of study such as: locating and managing housing using goal-setting and decision-making skills; evaluating living space to meet basic needs; creating and maintaining living environments; ensuring health and safety; selecting appropriate resources in creating living environments; determining the impact of the individual and/or group on living environments; and applying housing and home management choices relating to changing family/individual and career patterns. Students will also have the opportunity to participate in FCCLA activities.

Interior Design (So, Jr, Sr-.50 cr) (Prerequisite: Living Environments) (Offered *EVEN YR*) This course introduces students to the furnishings and interior design field and related job opportunities. The course includes: the study of the selection and care of furnishings, equipment and accessories in relation to socioeconomic factors, trends, personal tastes and characteristics, as well as physical and psychological needs. The application of art and design principles and the arrangement of furnishings in different settings are emphasized. Course content emphasizes careers related to interior design, furnishings and equipment; factors influencing interior design; application of art principles in interior design; criteria for selecting furnishings, equipment and appliances; arrangement and physical location of furnishings, equipment and appliances options; and selection and use of accessories. Students will also have the opportunity to participate in FCCLA activities.

AGRICULTURE DEPARTMENT

Beginning Horticulture (Fr, So, Jr, Sr-.50 cr) This course will cover the following topic areas: Basic soil, plants, weeds and lawn care. Students will also assist with greenhouse labs with the elementary classes and study greenhouse management practices. They will be involved raising and marketing numerous varieties of bedding plants and hanging baskets. Students will be encouraged to join FFA and participate in the Horticulture Career Development Event.

Feeds and Seeds (Fr, So, Jr, Sr-.50 cr) (Offered *ODD YR*) This course will begin the familiarization of the FFA Organization and parliamentary procedure as part of the agriculture program. The next part of the course will offer record keeping for the supervised occupational experience program (project). The identification of different weed seedlings and common crops of central Illinois will also be part of the course. The last area covered in this class will be learning activities and experiences designed to include animal nutrient requirements types of feed, methods of feeding, and which feeds supply specific nutrients. Students will also be involved in preparation for and participation in FFA events during this time period. This course may be counted as a science credit.

Animal Science (Fr, So, Jr, Sr-.50 cr) (Offered *ODD YR*) Biological Science Applications in Agriculture is a course designed to reinforce and extend students understanding of science by associating scientific principles and concepts with relaxant applications in agriculture. Students will examine major phases of animal agriculture and specific biological concepts that govern management decisions in the animal industry. This one semester course will deepen students understanding of science as content and as a process of thought through the use of numerous laboratory exercises and experiments. Students can also establish a supervised agriculture experience program and participate in FFA related activities. Subject matters include: scientific investigation in agriculture, animal genetics and biotechnology, animal reproduction, growth and development of animals, aquaculture and processing animal products.

Agri Mechanics (Jr, Sr-.50 cr) (Offered *ODD YR*) This course will cover the Basic Skill needs for the State Ag Mechanical Career Development requirement. Subject matter units include basic electricity, carpentry skills, metal and welding, surveying, and machinery management. Students will also be involved in preparation for the participation in FFA events during this time period.

Small Engines (Jr, Sr-.50 cr) (Offered *ODD YR*) This course will cover the principles and operation of small engines. It will be taught in two phases. Phase I will be the workbook and group work on small engines that are functional (furnished by school). Phase II will include the student bringing a small engine into the shop (prefer Briggs & Stratton) and completely overhauling it. Students will be financially responsible for all parts and maintenance costs. Students will also be involved in preparation for the participation in FFA events during this time.

Agri Small Engines II (Jr, Sr-.50 cr) (Offered *ODD YR*) This is a one-semester course that reinforces occupational information and learned experiences from Small Engines and

Beginning Power. Students wishing to sign up for this course must have earned an A or B in the Small Engines or Beginning Power Course. The course will consist of an overview of engine theory and operation the first nine weeks. The second nine weeks the student will be required to overhaul a 2-cycle engine and complete the required lab exercises.

Ag Supply & Service (Jr, Sr-.50 cr) (Offered *EVEN* YR) This class will consist of studies on four areas:

1. Electricity-motor and controls;
2. Sales and Service-resumes, customer relations, sales presentations, advertising, and customer complaints;
3. Ag Marketing-cash and futures;
4. Ag Chemicals-Students will be prepared to take the Illinois Pesticide Certification test if they so desire.

Students will be involved in the preparation and participation in FFA events during this class.

Ag Management (Jr, Sr-.50 cr) (Offered *EVEN* YR) Among the areas of study in this class are: buying materials and supplies, financing, records and record keeping, marketing, government relationships, social security laws, income tax, preparing income and net worth statements, and preparing a cash flow sheet. All these items are covered in the Illinois Farm Record Book Problems. Students will also be involved in the preparation in FFA events during this time period.

Soil & Water - (Fr, So, Jr, Sr-.50 cr) (Offered *EVEN* YR) This course consists of planned learning activities and experiences designed to instruct students in the properties of soil and water, soil fertility and fertilizers, and the use of tools and equipment, and machinery that will enable the students to use the water and soil properly to conserve our renewable natural resources. Students will also be involved in the preparation for and participation in FFA events during this time period. This course may be counted as a science credit.

Plant Science (Fr, So, Jr, Sr-.50 Cr) (Offered *EVEN* YR) Biological Science Applications in AGRICULTURE is a course designed to reinforce and extend student understanding of science by associating basic scientific principles and concepts with relevant in agriculture and the specific biological concepts that govern management decisions. This one semester course will deepen student understanding of science as content and a process through the use of numerous laboratory exercises and experiments. Students can also establish a supervised agriculture experience program and participated in agriculture science activities of the FFA. May be counted as a science credit.

Subject Matter Areas:

1. Understanding Scientific Investigation in Ag.
2. Agriculture and the environment.
3. Managing inputs, initiating, plant growth.
4. Reproduction in plants.
5. Handling, storing, processing of plant products.

Ag Occupation Education Program (All levels-.25 cr per semester) This is an on-going agriculture supervised program. Students will be evaluated for their effort during the summer and school year term.

INDUSTRIAL ARTS EDUCATION

Intro to Ag Tech (Fr-1 cr) This is a preparation course that provides background in the fields of communication, production, transportation, and energy utilization. Areas of instruction will include drafting, computers, safety, woods, metals, plastics, construction, manufacturing, service, land, sea and air transportation, energy conservation, conversion, etc. Instruction will be mainly of the hands-on and application variety utilizing required projects, experiments and group activities to develop an understanding and appreciation of the technical world around us. This course is required before taking other classes in the industrial sequence. Students will be required to pay for school materials before starting or furnish their own after calculating costs with the required bill of materials. Cost is dependent upon student choice of project, which usually runs between \$20 to \$30.

Beg Woods (So, Jr, Sr-.50 cr) This is a semester course designed to provide students with knowledge and experiences that involve a variety of occupational backgrounds, emphasizing those that provide job opportunities for the student. Areas of instruction include safety, woods and wood products, planning layouts, blueprint reading, jointing and fitting methods and application, glues, application, finishes and their application, and the safe and proper use and maintenance of power and hand tools. Satisfactory completion of this course is required before a student may take any other courses in the woodworking and materials-related sequence. Cost is dependent upon student's choice of project which is required to be paid before starting or must be furnished by student.

Woods II (Jr, Sr-.50 cr) This is a one-semester course that reinforces occupational information and learned experiences from Beginning Woodworking. Students wishing to sign up for this class must have earned an A or B in Beginning Woods. The course also introduces more skills, machine uses and techniques. A student will design a project and purchase a commercial set of plans for an approved project. Instruction will be provided to reinforce safe work practices, efficient use of raw materials, use of equipment to construct multiple matched doors, drawers, panels, trim or other cabinet pieces as appropriate. Cost of project is the responsibility of the student. School materials will have to be prepaid.

Construction Trades (Jr, Sr-.50 cr) This course is designed to provide learning experiences related to the designing, cost estimating, ordering, and the construction of a wood frame structure. Planned activities allow the student to become more knowledgeable of fundamental principles and methods to develop skills related to carpentry and painting as they relate to a garden utility shed. Students will read and interpret blue prints, use measuring tools and equipment, frame, erect, apply roofing, and learn about wood preservatives. Learning activities are designed to allow students to acquire job entry skills, attitudes and knowledge

Beg Welding (So, Jr, Sr-.50 cr) (Offered *ODD YR*) This course of planned learning activities & experiences are designed to expose the student to a variety of fundamental skills and achieve a level of competence utilizing Electric ARC, Plasma Arc, MIG and Oxy-acetylene welding and cutting. Students will be required to do 75 exercises involving torch brazing, mild steel and fusion welding, cutting, MIG and Arc welding using flat, vertical, horizontal and overhead positions as appropriate.

Welding II (Jr, Sr-.50 cr) (Offered *ODD YR*) An one-semester course that reinforces occupational information and learned experiences from Beginning Welding. Students must have earned an A or B in Beginning Welding. The course also introduces more skills, machine uses and techniques. Student are required to design a project that the instructor deems worthy of the expectations of this class or to purchase a commercial set of plans for an approved project. The student will generate his own Bill of Materials and Plan of Procedure to successfully complete the project. Instruction will be provided to reinforce safe work practices, efficient use of raw materials, use of equipment to construct the approved project in an efficient and timely manner. Mass production projects could be considered by two or more students if approved by instructor. Emphasis will be placed on construction of appropriate jigs and fixtures that would aid in the successful completion of the project. Prepaid costs are the responsibility of the student.

CAD I (So, Jr, Sr-.50 cr) (Pre-requisite: Drafting Fundamentals.) Experiences provided will reinforce basic skills and practices as learned in Introduction to Technology and Drafting Fundamentals using the computer as a modern drafting tool. Experiences with CAD will be provided to learn the new language and communication forms of industry using AutoCAD or similar programs utilized in industry. Many of the required exercises will focus on Mechanical Drafting and will duplicate several of the drawings from Drafting Fundamentals.

CAD II (Jr, Sr-.50 cr) (Pre-requisite: Passing CAD I with an A or B.) This class will carry on with the skills introduced in the previous class and provide the student with other experiences using other software. Students will use a variety of programs to design architectural models and room layouts as could be used by commercial kitchen, bath, or landscape designers. They will also be provided with experiences using 3 Dimensional CAD as used in industry. Software will include Generic CAD'S Home, Kitchen, Bath, and Landscape Design as well as AutoCAD or similar programs.

Drafting Fundamentals (So-.50 cr) (Pre-requisite: Intro to Tech.) This is a beginning course that expands on the ideas presented in Introduction to Technology and provides experiences to students in the field of manual drafting. Instruction will emphasize the proper use and care of basic drafting equipment, lettering standards, dimensioning standards and techniques, applied mathematics skills, geometric construction, accurate measurement and neatness. Students will demonstrate and practice these competencies as they produce drawings using multi-view, isometric, oblique, section, auxiliary, and other appropriate forms of graphic communication. This course is a pre-requisite to all CAD drafting classes.

Drafting II (Jr, Sr-.50 cr) (Pre-requisite: An “A” or” B” in Drafting) This is a paper-pencil course for advanced students who wish to explore the field of architecture and work with house plans. The student will study and explore the concepts of living areas, service areas, etc. And develop a set of plans for a typical 3 to 4 bedroom home. Included would be floor plans, necessary elevations, sections, framing and others as deemed appropriate.

Beginning Power & Small Engine Repair (So-.50 cr) This is a sem. course designed to introduce the student to the theory, development of and occupations related to the small engine and experiences related to the service, maintenance and repair of small engines as commonly used today. Units of instruction include design, construction, theory of operation of internal combustion engines, use of technical shop manuals, precision measurement, fuel and carburetor systems, electrical and ignition system, starting system, cooling and lubrication, preventative maintenance, small engine analysis and over-haul procedures as well as occupational related information. Student experiences will include a group overhaul and practices using the proper measuring tools, the identification and use of common hand and bench tools as well as specialty tools that would be use in the disassembly, cleaning inspection, component repair and replacement, and reassemble and operation of small gas engines. The student will then complete a second overhaul, using the skills learned in the group activity as well as all the tools necessary to complete the task of his own engine and **be completely financially responsible for all parts and maintenance cost**. This could run from \$10-45 dollars depending on repairs needed. Satisfactory completion of this course is required before student takes other course sequence.

Small Engines II (Jr, Sr-.50 cr) This is a one-semester course that reinforces occupational information and learned experiences from Small Engines and Beginning Power. Students wishing to sign up for this course must have earned an A or B in the Small Engine or Beginning Power course. The course will consist of an overview or engine theory and operation the first nine weeks. The second nine weeks the student will be required to overhaul a 2-cycle engine and complete the required lab exercises and **pay for all their own materials**.

BUSINESS DEPARTMENT

Consumer Education (Jr-.50 cr) This course focuses on the understandings and skills needed to make decisions about the use of resources. The course content includes: utilizing resources and consumer information by applying goal-setting and decision-making skills; evaluating use of resources to meet social, physical and psychological needs; applying consumer rights and responsibilities in the marketplace; and analyzing resource/consumer rights management skills necessary to make decision. The course meets the content requirements for consumer education instruction as required by the State of Illinois and is a requirement to graduate.

Computer Applications (Fr-1 cr) This is a required course available to freshman and serves as an introductory level course that exposes students to Windows, desktop publishing, presentation software, and the Internet. Students will learn the basic commands and operations of Microsoft Office programs and explore ways to use these skills to produce high quality

products for home, school, and work.

ART DEPARTMENT

Introduction to Visual Arts (This is a pre-requisite to all other art department courses.)

This is a course designed as an introduction to art history, the basic elements and principles of design, and general methods and techniques of art production. Students will explore a variety of art techniques and processes, as well as a range of media. Students will keep an ongoing sketchbook as a weekly assignment, and create a visual record of various themes provided by the teacher. This is a beginning visual arts course where hands-on involvement and production is the main focus.

Introduction to 3-Dimensional Art(A passing grade in Intro to Visual Arts is a requirement prior to enrolling in this course.) 3-Dimensional Art studies artwork including ceramics, sculpture, installation, textiles, and jewelry, as well as artists in history who work(ed) within similar techniques and media. The production in this course will focus on three-dimensional types of artwork through varied media. Students will also keep an ongoing sketchbook as a weekly assignment, and create a visual record of various themes provided by the teacher.

Vocational Arts (A passing grade in Intro to Visual Arts is a requirement prior to enrolling in this course.) Vocational Arts concentrates on the broad uses of artistic knowledge and skills in the vocational realm. Emphasis will be partially on computer programs such as MS Word, MS PowerPoint, and Photoshop, and partially on skills of creating visual displays, documents, web pages, and presentations for occupational purposes. Students will also have an opportunity to work in the medium of digital photography and learn general photography techniques and skills. Students enrolling in this course should expect to work a great deal with various computer programs. Students will also keep an ongoing sketchbook as a weekly assignment, and create a visual record of various themes provided by the teacher.

Advanced Studio (A passing grade in Intro to Visual Arts as well as one other department class is required prior to enrollment in Advanced Studio.) This course will prepare students for further art studies at the university level, as well as provide a similar experience for students who do not wish to pursue the arts further. Students will be allowed more independence in their choices of media and processes, and will experience creating an artist statement, practice being aware of artistic decisions they are making, as well as taking part in art criticism discussions. Students will be responsible for having an ongoing portfolio comprised of both in-class and outside of class work, and can expect to show their work as a culmination of the semester. Students will also keep an ongoing art journal as a weekly assignment, and create a visual interpretation of general themes provided by the teacher.

FOREIGN LANGUAGE

Spanish I (Pre-requisite: Must have a “C” or better in the last English Class completed) The overall objective of this course is to develop the student’s ability to understand, speak, read and write the Spanish language to the point that he can communicate easily and effectively on matters of everyday life. This objective will be achieved through extensive oral participation and listening exercise. This course will also introduce the students to some geography, history and major cultural aspects of Spain and Latin America.

Spanish II (Pre-requisite: Spanish I with a “C” or higher average) this class will be conducted for the most part in Spanish. We will build on everything learned in Spanish I, and further explore customs and ways of life in Spain and Latin America. Each student will be expected to actively participate in class discussions, which will be conducted in Spanish.

Spanish III (Pre-requisite: Spanish II with a “C” or higher average) This course includes a grammar review on the first and second year Spanish plus more advanced grammar will be introduced. The class will be conducted for the most part in Spanish. More extensive speaking and writing exercises will be conducted.

Spanish IV (Pre-requisite: Spanish III with a “C or higher average) More advanced grammar will be introduced in this course. Extensive speaking and writing exercises will be conducted. Spanish novels may be introduced if time allows. This course is conducted in Spanish and students are expected to speak only Spanish while they are in the classroom.

OTHER COURSES

Driver Education (.50 cr) A basic state approved course consisting of a minimum of 30 hours of classroom and 6 hours of behind-the-wheel instruction. Any community member over the age of 15 and under the age of 16 is eligibility to take class. Class placement will be determined by date of birth.

Physical Education (1 cr) Required for graduation (unless exempt by reason of medical, athletics, post-secondary enrollment, make-up course for graduation requirement –11th & 12th graders consult guidance counselor) Students enrolled in P.E. must pass the course or will be required to repeat the class again. Activities include individual and team sports, recreation and life sports.

Health (Fr, So-.50 cr) This course deals with the study of a person’s well being physically, mentally, and socially. Methods of instruction involve lecture, discussion role-playing and making posters.

Media Design I (Jr, Sr-.50 cr) (Pre-Requisite Computer Applications) This semester course will be a combination of digital photography, digital video editing, web design, wikis, blogging, and e-mail. Programs that will be used include, but are not limited to: PhotoShop, Flash, Dream Weaver, Pinnacle Studio 8, & Windows Movie Maker. Students will be

responsible for capturing video of school events as well as extra out-of-school activities that will be used to develop and create videos.

Media Design II (Jr,Sr-.50 cr) A semester class in which the students will be responsible for all aspects of the Delavo (yearbook) including the computerization of the publication. Students taking this course must understand that it will require work outside of regular classroom time. It is strongly recommended that students have prior computer knowledge before enrolling in course. Other topics covered will include digital photography, website design, and animation. Programs that will be used include, but are not limited to yearbook avenue, SOCS, Flash, & Photoshop

Band (.50 cr-yr) This course provides students with an opportunity to participate in a very unique learning experience. Students enrolled in band will have the opportunity to perform in small and large group settings consisting of concert band, pep band, jazz band, chamber ensembles and solo performances. Other activities include special concerts in the community and surrounding areas, a trip to be determined, IHSA contests, and other music festivals. Band will meet two days a week plus one personalized lesson will be given if possible. Students are expected to perform at all instrumental events scheduled to receive complete credit.

Chorus (.50 cr-yr) This course is open to all high school students who have an interest in music. The choral experience gives students an opportunity to explore their musical talents in a unique and expressive manner. Students enrolled in chorus will have the chance to perform in small and large group settings like concert choir, madrigals, chamber groups, solo performances, men's/women's feature groups and karaoke. Other activities include a trip to be determined, special concerts in the community and surrounding areas, IHSA contests and other music festivals. Chorus will meet two days a week plus personalized lessons will be given if possible. Students are expected to perform for all choral events scheduled to receive complete credit.