

COURSE DESCRIPTIONS

SUBJECT AREA: AGRICULTURE

AGRIBUSINESS SALES AND MARKETING: (Grades 11-12) Two-semester course

Prerequisite: Ag. Science I & II or by *permission of the instructor.*

This course is a study of human relations, personal inventory, careers in selling, and other experience necessary for employment in agribusiness engaged in marketing, purchasing and storing, grading and transporting supplies and products. Additional instruction includes; record keeping, leadership training and supervised agricultural experience.

AGRICULTURAL CONSTRUCTION: (Grades 11-12) Two-semester course

Prerequisite: Ag. Science I & II or by *permission of the instructor.*

This course utilizes welding in the development and construction of major metal and wood shop projects.

AGRICULTURAL CONSTRUCTION 2: (Grades 11-12) Two-semester course

Prerequisite: Ag. Construction I or by *permission of the instructor.*

This course utilizes welding in the development and construction of major metal and wood shop projects, more in depth than Agricultural Construction 1.

AGRICULTURAL MANAGEMENT AND ECONOMICS: (Grades 11-12) Two-semester course

Prerequisite: Ag. Science I & II or by *permission of the instructor.*

This course includes works through the principles of economics, the economic system of the United States, and takes an in depth look at marketing and sales of products for agriculture and agribusinesses. Good math skills are required for this class. *Weighted*

AGRICULTURAL SCIENCE I: (Grades 9-12) Two-semester course

This course is designed for instruction in animal science, food science, natural resource, wildlife, biotechnology, sales/marketing, careers, leadership, and supervised agricultural experience.

AGRICULTURAL SCIENCE II: (Grades 10-12) Two-semester course

Prerequisite: Ag. Science I or by *permission of the instructor.*

This course is designed for instruction in plant science, soils, entomology, horticulture, forestry, and additional mechanics experiences. Careers, leadership, and supervised agricultural experience will be included.

AGRICULTURAL STRUCTURES 1: (Grades 11-12) Two-semester course

Prerequisite: Ag. Science I & II or by *permission of the instructor.*

This course includes electrical wiring, concrete masonry, plumbing, rafters and roof construction and farm buildings.

AGRICULTURAL STRUCTURES 2: (Grades 11-12) Two-semester course

Prerequisite: Agricultural Structures 1 or by *permission of the instructor.*

This course includes electrical wiring, concrete masonry, plumbing, rafters and roof construction and farm buildings, more in depth than Agricultural Structures 1.

ANIMAL SCIENCE: (Grades 11-12) Two-semester course

Prerequisite: Ag. Science I & II or by *permission of the instructor.*

The course covers the advanced study in animal production, management, marketing, nutrition, breeding, production records, selection, animal health, waste management, and biotechnology.

Weighted

CROPS (Ag 105): *Two semester course*

Prerequisite: Teacher recommendation and approval.

Upon completion of the course, the student will have a working knowledge of the principles and practices of crop and soil science and grassland management. Lots of hands on, outdoor work will be used in this course. This is an advanced high school class, introductory college level class and much is expected of the students. *Weighted*

FLORICULTURE: (Grades 11-12) Two-semester course

Prerequisite: Ag. Science I & II or by *permission of the instructor.*

This course deals with the production, arrangement and retailing of flowers and their products. Those included should be fresh, silk or dried flowers from which corsages, wedding bouquets, table flower arrangements and seasonal decorations. The production of greenhouse crops through greenhouse techniques. Plants are started from cuttings and seeds. Students will manage their own plants as a greenhouse project.

FOOD SCIENCE AND BIOTECHNOLOGY: (Grades 11-12) Two-semester course

Prerequisite: Ag. Science I & II or by *permission of the instructor.*

The course is a study of the areas of food chemistry and nutrition, food additives, food packaging and labeling, evaluation of foods, food microbiology, food processing, food fermentation, principles of sanitation and quality control. Additional instruction includes; record keeping, careers, leadership training and supervised agricultural experience.

NATURAL RESOURCE MANAGEMENT: (Grades 11-12) One-semester course

Prerequisite: Ag. Science I & II or by *permission of the instructor.*

This course provides studies on the different aspects of natural resource management including soil management, forestry, energy sources and conservation.

SUPERVISED AGRICULTURAL EXPERIENCE – CO-OP: (Grades 11-12)

This course provides for the enrollment of students that are released on school time to complete a cooperative occupation experience in an approved training station in agriculture. A signed training agreement and training plan must be completed for each student.

WILDLIFE MANAGEMENT: (Grades 11-12) *One-semester course*

Prerequisite: Ag. Science I & II or by *permission of the instructor.*

This course conducts a study of grassland management as it relates to wildlife habitat, reproduction, conservation and improvements.

SUBJECT AREA: ART

ART I: (Grades 10-12) One-semester course

Prerequisite: Design.

Students will work in a variety of drawing and painting media techniques in order to develop eye-hand coordination, and self-expression. Other two & three dimensional art approaches may be explored such as high and low-relief collage, relief printmaking, sculpture, and betaking. Visual design principles and elements will be studied in order to learn to solve organizational and representational problems. Certain aspects of the origin and evolution of art history will be studied in their relationship to different art techniques. Student work will be reviewed in individual and group critiques regularly during the semester. An Art Fee of \$5.00 will apply.

ART II: (Grades 10-12) Two-semester course

Prerequisite: Design & Art I.

This course is designed to further develop a students understanding of drawing and painting theory, and design theory, as well as further developing media application techniques and self-expression. Further exploration of a variety of painting media, printmaking, computer graphics, photo silk-screening, sculpture, and collage will be experienced. The study of art history will continue. An Art Fee of \$5.00 will apply.

ART III: (Grades 11-12) Two-semester course

Prerequisite: Design & Art I & II.

This course is designed for the highly motivated art student with emphasis placed on self-expression, creativity, and originality in all studio phases studied in Design, Art I and Art II media techniques and theory as well as the study of art history as it relates to studio work. Art Fee (based on supplies used) will apply.

ART IV: (Grades 11-12) One-semester course Independent Study in Art.

Prerequisite: Design, Art I, II, & III.

Students enrolled in Art IV will pursue a self-guided investigation, growth and discovery of artistic expression through a variety of art media. A typed paper is required outlining the objectives to be studied for each quarter as well as a typed paper at the end of the quarter outlining how you accomplished those objectives. At least one piece of art work that is exhibition ready is due every two weeks. Art Fee (based on supplies used) will apply.

ART APPRECIATION: (Grades 9-12) Two-semester course

Prerequisite: None

In this course, students develop and understanding, appreciation, and enjoyment of art in its many forms. Vocabulary of art, elements, principles, tools, and materials of artists will be examined alongside the great themes in history. Critical analysis of the diverse works of art will be practiced. Students will be able to connect art movements with other historical periods. There is no fee for this class.

CERAMICS: (Grades 9-12) Two semester course

Prerequisite: Design.

Students will explore the primitive clay building techniques of pinch, coil, and slab methods of construction. Throwing clay on the potter's wheel will also be experienced as well as learning glaze application techniques. All techniques will be studied in their relationship to good artistic and creative design and function. Ceramics fee of \$25 will apply.

DESIGN: (Grades 9-12) One-semester course

Students will study design theory, why and how to use design theory in order to be imaginative and creative as well as learning to be a responsible consumer. Emphasis will be placed on the practical application of the principles and elements of design theory, Critical Inquiry (Art Criticism), and critical thinking skills to studio design problems and art history. Studio design problems may include but are not limited to the designing of CD covers, consumer product food containers to entertainment items, photo silk-screen T-shirts, company logos, sculpture, batik, ad computer generated graphics and advertising. Design fee of \$5.00 will apply.

PHOTOGRAPHY 1: (Grades 10-12) One-semester course

Prerequisite: Design and Art I

Black and White photography is an introductory course designed to integrate the functions of the camera, film development, and printing procedures in their relationship to artistic and creative self-expression. Students are supplied with film, paper, and all chemicals needed to develop and print. Students are required to supply their own 35 mm camera. Photography fee of \$25 will apply.

PHOTOGRAPHY II: (Grades 10-12) One-semester course

Prerequisite: Design, Art I, and Photography 1 (must pass photo I with at least 70%).

Photography II is an advanced course designed to integrate digital photography and graphic design into advanced photo composition and creative self-expression. In studying photography as a medium of artistic expression, students concentrate on advanced composition techniques, identifying and using the principles and elements of design, and recognizing the importance of aesthetics. Artistic individual student critiques will be held several times during the semester. Students must supply their own digital camera. Photography fee if \$10.00 will apply.

SUBJECT AREA: BUSINESS

ACCOUNTING I: (Grades 10-12) Two-semester course

Accounting is an essential aspect of every business. In this course students will build a basic understanding of manual accounting principles, concepts, and procedures. Topics covered include the accounting equation, accounting cycle, entering transactions in journals, posting to ledgers, preparing end-of-period statements and reports, payroll systems, banking activities, taxes, etc.

ACCOUNTING II: (Grades 11-12) Two-semester course may be offered as independent study.

Prerequisite: Accounting I and Computer Applications

This course addresses advanced accounting principles including departmentalized, corporation, management, cost, and government concepts. Computerized accounting will be integrated into each chapter. *Weighted*

APPLIED BUSINESS/INTERNET: (Grades 9-12) One-semester course

This course is designed to provide the student with hands-on opportunities to experience normal day-to-day activities needed to become a more productive citizen and efficient consumer. Topics covered will include check writing, and financial management, career exploration, entrepreneurship, purchasing habits, and accessing the Internet through a guided practice unit. The Internet will be used throughout the semester to find material to reinforce topics covered in class.

BUSINESS LAW I: (Grades 11-12) One-semester course

To strengthen their roles as citizens, consumers, and employees, students need knowledge of the basic legal principles of business law. The content of this course includes the basic characteristics of the American system of free enterprise; the laws pertaining to minors, families, consumers; and basic elements of contracts. Students will have the opportunity to participate in mock trial demonstration.

BUSINESS LAW II: (Grades 11-12) One-semester course

Prerequisite: Business Law I or *instructor's permission.*

This course is designed to be a continuation of Business Law I with a greater emphasis on more complex issues affecting the area of business law. Topics covered will include employer-employee relations, credit, insurance, landlord-tenant relations, wills and estates, community property and business organizations. Students will have the opportunity to participate in mock trial demonstrations.

BUSINESS MANAGEMENT: (Grades 10-12) Two-semester course

Managing a business requires an understanding of skills and resources needed to manage a business. Instruction includes a general overview of American business, forms of business ownership, personnel management, labor management relations, public and human relations, taxation, and government regulations. The use of microcomputers, Internet, and software tools in making business decisions in areas such as accounting, sales analysis, and inventory control will also be introduced.

BUSINESS TECHNOLOGY: (Grades 11-12) Two-semester course (Articulated Credit with OTC)

Prerequisite: Computer Applications

This class is designed to prepare students for immediate employment or college-bound programs. Emphasis is placed on enhancing skills needed by office professionals: input technologies (voice recognition, electronic writing pad, personal digital assistant, scanners, and digital camera), advanced computer application skills (word processing, database, spreadsheets, graphics), communication skills (human relations, business communication, reference materials, telephone, voice recognition, internet use), data management (databases, filing, records management), financial records (calculators, banking records, money management, payroll records) and career management (research, application activities, success on the job, and moving out on your own).

COMPUTER APPLICATIONS: (Grades 9-12) One-semester course, required for graduation.

Prerequisite: Keyboarding or *instructor's permission.*

This class is designed to teach the operation of microcomputer system and software programs to produce quality documents (word processing), manage files (database), analyze figures and statistics, (spreadsheets) and prepare graphics (presentations).

ENTREPRENEURSHIP: (Grades 10-12) One-semester course

Prerequisite: Computer Applications.

Entrepreneurship focuses on recognizing a business opportunity, starting a business based on that opportunity, and operating and maintaining that business. This advanced course enriches the student's knowledge through the use of hands-on activities, projects, and Internet research. Emphasis is on developing and reinforcing these areas: planning, marketing, financing, complying with legal requirements, and purchasing an existing business.

INTRODUCTION TO MULTIMEDIA: (Grades 10-12) One-semester

Prerequisite: A grade of "C" or better in Computer Applications or *by instructor permission.*

This course is designed for students to learn to use various types of hardware and software to create multimedia productions. Hardware may include scanner, digital camcorder, digital camera, LCD projector, and interactive white board. Students will work individually and in groups using multimedia software to develop electronic presentations and digital video productions. They will learn how to manipulate text, art and graphic photography, animation, audio, and video for presentations. Heavy emphasis will be placed on effective oral and written communication skills.

KEYBOARDING: (Grade 9) One-semester course

Keyboarding is the manipulative skill required and used in completing a task on keyboard. It is also an essential prerequisite for the development of document formatting and processing skills used in the workplace. Passing this class in high school or junior high is required before taking any computer classes.

MICROCOMPUTER APPLICATIONS: (Grades 11-12) One-semester course (Articulated Credit with OTC or Dual Credit)

Prerequisite: Computer Applications.

Effective use of a computer requires an introduction to components of a microcomputer and the Windows XP operating system. Students will also develop functional skills in each of the individual components of Microsoft Office 2003 (Word, Excel, Access, and PowerPoint). Integrating the various components will also be introduced. *Weighted*

MICROSOFT PUBLISHER: (Grades 10-12) One-semester course

Prerequisite: Computer Applications.

Desktop publishing is the process of combining text and graphics by using page layout software using different fonts, styles, types, page design and layout to produce a variety of products such as newsletters, catalogs, brochures, advertising copy, announcements, etc. Time will be spent compiling a book of stories and poems from elementary students. This is an upper level course. *Weighted*

PERSONAL FINANCE: (Grades 11-12) One-semester course, required for graduation.

Designed as a one-semester course for seniors who have the goal of acquiring knowledge and skills for financial decision making. In the years after graduation each student will need to know how to manage, save, and invest his/her money wisely. In addition to learning how to budget money and manage a checkbook, students will learn about saving and investment options. Other knowledge and skill areas include financial planning, managing credit, insurance, housing, transportation, and retirement.

PERSONAL FINANCE - DC: (Grades 11-12) One-semester course DC, required for graduation.

Prerequisite: Meet the requirements as described in dual-credit program descriptions. This course is a survey course for both business and non-business students in personal financial planning including personal budgeting, investments, insurance, credit, housing, and retirement planning. Fundamentals of financial planning and making educated decisions regarding spending, saving, borrowing and investing that lead to long-term financial security are key components of this course. Equivalent to Personal Finance FB 101, Central Methodist University.

SUPERVISED WORK EXPERIENCE: (Grades 11-12) One or Two-semester course

Prerequisite: Must be enrolled in Business Technology or other upper level business course (or second-year student must be enrolled in Accounting I or II, Business Law I or II, Business Management, Entrepreneurship, Introduction to Multimedia, Microcomputer Applications, Microsoft Publisher, or Web Page Design).

This course allows release time from school in order to gain experience at a wage-earning occupation related to the business field while earning credit for graduation. Students will complete a variety of job-related activities to comprise a portfolio of their experiences.

WEB PAGE DESIGN: (Grades 10-12) One-semester course

Prerequisite: A grade of "C" or better in Computer Applications and Introduction to Multimedia or *by permission of the instructor.*

This course is designed to use HTML techniques and Web page design software to create, design and maintain web pages and sites. Using the software available, students will design, create, and maintain planned and independent projects for web pages. Good computer file management skills, word processing, and language skills are necessary.

SUBJECT AREAS: COMMUNICATION ARTS

Individual teachers will require purchase of specific items for each class. Please see course syllabus or teacher for those items.

ADVANCED DRAMA: (Grades 10-12) Two-semester course, 1 elective credit

Prerequisite: Drama I and/or Oral Interpretation or permission/audition.

An extension of Drama and Oral Interpretation that intensifies theatrical skills taught by extending students' awareness of the history of theatre and their knowledge of drama as a vital literary genre'; has an emphasis on competition performances and student directed performances.

COMMUNICATIONS: (Grade 11) One-semester course, ½ English credit

This required course explores various kinds of communication, including verbal, nonverbal, interpersonal, and workplace communication. Students will give oral presentations, practice interviewing, and study persuasive techniques used in written and oral communication today. (Students who have taken debate, oral interp. or advanced drama have met the requirement).

CREATIVE WRITING: (Grade 12) One-semester course, ½ English credit

Prerequisite: English III

This course is a writing intensive course designed for students who are serious writers interested in developing better writing skills. Emphasis is placed on the development of ideas, creating characters and motivation, development of setting, blueprinting stories, creating scenes, and expanding individual writing style and genre.

DEBATE I: (Grades 9-12) Two-semester course, 1 elective credit

This course provides the student with the opportunity to improve speaking, reading, and research skills. Tournaments for competitive debate are scheduled throughout the year.

DEBATE II: (Grades 10-12) Two-semester course, 1 elective credit

Prerequisite: Debate I and *permission of the instructor.*

This course is designed for advanced debaters with emphasis on advanced argumentative and research skills. Individual speaking projects and competitive tournaments are required.

DEBATE III & IV: (Grades 11-12) Two-semester course, 1 elective credit

Prerequisite: Debate II and *permission of the instructor.*

This weighted course is designed for advanced debaters with emphasis on advanced argumentative and research skills. Individual speaking projects and competitive tournaments are required.

DRAMA I: (Grades 9-12) Two-semester course, 1 elective credit

This course is an introduction to the performing and producing disciplines of the theater. Emphasis is on performance and the study of its history to performance techniques, make-up, set design, technical theater and interpretation of literature.

DUAL CREDIT ENGLISH 110: (Grade 12) One-semester course, ½ English Credit

Prerequisite: Teacher Recommendation and English III.

This semester course is dual-enrollment, available to college-bound seniors, for which the student may receive weighted high school credit and three hours of college credit per semester from Central Methodist College. To be eligible for enrollment, the student must have at least a 3.5 GPA on a 4.0 scale and a score of at least 19 on the ACT or have at least a 3.0 GPA on a 4.0 scale and score at least 23 on the ACT. The course includes a study of the traditional modes of invention and development and practice in them through writing at least ten extended essays, including a research paper; study of grammar, syntax, and dictation and their relationship to effective writing. Students will also be required to use various technology including PowerPoint presentations and use higher level thinking skills.

DUAL CREDIT ENGLISH 111: (Grade 12) One-semester course, ½ English credit

Prerequisite: Teacher Recommendation and English III.

This semester course is dual-enrollment, available to college-bound seniors, for which the student may receive weighted high school credit and three hours of college credit per semester from Central Methodist College. To be eligible for enrollment, the student must have at least a 3.5 GPA on a 4.0 scale and a score of at least 19 on the ACT or have at least a 3.0 GPA on a 4.0 scale and score at least 23 on the ACT. The course includes a study of the traditional modes of invention and development and practice in them through writing at least ten extended essays, including a research paper; study of grammar, syntax, and dictation and their relationship to effective writing. Students will also be required to use various technology and collaboration skills to develop presentations and use higher level thinking skills.

DUAL CREDIT ENGLISH 105 (WORLD LITERATURE): (Grade 12) One-semester course, ½ English credit or ½ elective credit

Prerequisite: Teacher Recommendation and English III.

This course is designed to give students a look at the world of literature through discussion, dialogue, writing, peer review, analysis and summary types of exercises. Students will be exposed to novels, short stories, poetry and prose in both fiction and non-fiction genres including mythology, legends and lore. Good writers make good readers. Emphasis will be placed on higher level thinking, organization and timely issues with literature, history and current events. Students will be encouraged to find relevant, real-life parallels and connections with the literature introduced as part of the course. They will also be encouraged to research biographical information on a variety of authors to determine specific details regarding writing styles, insights and trends in authorship.

ENGLISH IV CAREER TECH: (Grade 12) One-semester course, ½ English credit

Prerequisite: English III or Applied Communications 3

This course is designed to prepare students who are planning to attend technical training or enter the world of work upon graduation with reading and writing skills. Students will be required to read, evaluate, and interpret many types of fiction and non-fiction works. Students will be required to write instructions, letters, and other pieces of technical writing.

ENGLISH I: (Grade 9) Two-semester course, 1 English credit

This class encompasses speaking, reading, writing, listening and grammar skills. The class will read different types of literature as well as study characteristics of each type. Additionally vocabulary is studied. Writing will include instruction on persuasive, descriptive, narrative and expository forms.

ENGLISH II: (Grade 10) Two-semester course, 1 English credit

Prerequisite: English I.

This class involves a basic course in word study, novel, short story, drama and poetry reading, composition and research skills. The study of grammar includes parts of speech, sentence parts, and usage and mechanics. Reading includes the four major genres of literature: short story, novel, poetry, and drama.

ENGLISH III: (Grade 11) Two-semester course, 1 English Credit

Prerequisite: English II.

The focus of this course is on American Literature, grammar, and composition; a major writing is a research paper. The class involves interpretive reading and writing skills.

Seniors must have one ½ credit of English during the senior year to meet graduation requirements.

ENGLISH IV: (Grade 12) Two-semester course, 1 English credit

Prerequisite: English III.

English IV is a college preparatory course. This course includes the composition of essays, research papers and projects, and a survey of British and world literature.

FILM AND FICTION: (Grade 12) One-semester course, ½ English credit

Prerequisite: English III

In this course students will read, study, discuss, and write about selected novels prior to viewing the on screen version of the novel. Students will then compare and contrast the film with the novel by writing essays and creating presentations. Emphasis will be placed on format, literary techniques and the power of film on fiction writing. Discussions will also consist of the reasons for differences between screen plays and fiction novels and the many reasons a novel is chosen to become a movie.

HONORS ENGLISH II: (Grades 10) Two-semester course, 1 English Credit

Prerequisite: Teacher's recommendation and English I.

This class involves more critical and interpretive reading and writing skills than the English II. The students experience a greater variety of exposure to literature and composition. This class is weighted.

HONORS ENGLISH III: (Grades 11) Two-semester course, 1 English credit

Prerequisite: Teacher's recommendation and English II.

This class involves more critical and interpretive reading and writing skills that focus on American Literature, grammar and composition. This class is weighted.

HONORS ENGLISH IV: (Grades 12) Two-semester course, 1 English Credit

Prerequisite: Teacher's recommendation and English III.

This class involves more critical and interpretive reading and writing skills that focus on British and world literature and composition. Students not seeking dual credit enrollment are strongly encouraged to enroll in this class. This class is weighted.

21st CENTURY SKILLS: (Grades 9) One-semester or Two-Semester course, ½ English credit or ½ elective credit for the second semester.

This required course for freshmen is designed to enhance "literacy" at all skill levels. Literacy skills will include reading, writing, speaking, thinking, collaborating and accessing information. Students will apply these skills and information through a variety of learning models using print and technology sources. Comprehension levels will increase as students are challenged to develop leadership skills, critical thinking capabilities and problem solving applications. One semester is required for all freshman students.

JOURNALISM: (Grades 9-12) Two-semester course, 1 elective credit

Prerequisite: English I or permission based on writing sample.

This course is the study of writing techniques used in journalism with emphasis on crafting news stories, features, and editorials. Students are required to write and produce a monthly newspaper.

ORAL INTERPRETATION: (Grades 9-12) Two-semester course, 1 elective credit

This class is designed for forensic students to prepare them for speaking events in tournament competition. This class is performance-oriented which includes interpretation of literature, radio-speaking and individual projects.

PRODUCTION JOURNALISM: (Grades 10-12) Two-semester course, 1 elective credit

Prerequisite: Journalism or permission of instructor.

This course is the practical use of the techniques of Journalism in the production of the school yearbook and the management of the records for the FUNDING of the yearbook.

MEDIA PRODUCTION: (Grades 10-12) Two-semester course, 1 elective credit

Lab Fee Required: \$25 per year.

Prerequisite: Application process, teacher recommendations, tryout and selection by instructor. Course may be taken multiple years. Student must qualify every year.

The course provides an overview of television production with an emphasis on the roles and responsibilities of the television production team. Students will learn how to correctly operate studio and field production equipment. The course includes videotaping, camera handling, editing, television journalism, reporting and anchoring, and studio production. The course also includes news and feature package production, introduction to informational video production, and introduction to commercial/PSA video production. Special emphasis will be placed on scriptwriting, news reporting, digital videography, and nonlinear post-production editing.

SUBJECT AREA: Elective

ACT PREP: (Grades 11-12) Two-semester course

This class is designed to help students improve their ACT scores. Each subtest of the ACT is discussed in detail along with specific test-taking strategies for each subtest. Other information about the ACT is always covered including test dates, locations, college ACT requirements, and the application process.

DRIVERS TRAINING: (Grades 9-12) One-semester course (Summer Only)

This class has 30 hours of classroom study, six hours of observation in the car and six hours of driving. Prerequisite: Student must be 15 years old by the first day of summer school.

SUBJECT AREA: FAMILY & CONSUMER SCIENCE

ADVANCED CLOTHING: (Grade 10-12) One-semester course

An instructional program designed for students with previous sewing and clothing experience. Emphasis is placed on clothing needs, wardrobe planning, textiles, careers, and clothing construction. Students use advanced construction techniques in sewing projects.
Material Requirements: Students are responsible for purchasing pattern, material and sewing supplies for projects.

CAREER & FAMILY LEADERSHIP: (Grade 9) Two-semester course

Career and Family Leadership introduces the general study of family and consumer sciences, including how individuals develop and function in family, work, and community settings. The impact of career exploration and leadership development on individuals and families are important components of this course. Areas of foods and nutrition, housing, and clothing are also covered.
Material Requirements: Students are responsible for purchasing sewing supplies

CHILD DEVELOPMENT: (Grade 10-12) One-semester course

This is an instructional program that prepares individuals to understand children's physical, mental, emotional, and social growth and development. Includes instruction in childcare and guidance.
Material Requirements: A notebook is required for the semester.

FAMILY/CONSUMER RESOURCE MANAGEMENT: (Grades 10-12) One-semester course

An instructional program that prepares individuals to understand the values, needs, wants, goals, and resources that enable youths and adults to make rational decisions that contribute to family stability and quality of life. Includes instruction in budgeting and spending plans, use of credit, savings, investments, taxes, consumer buying, and consumer rights and responsibilities.

FAMILY LIVING: (Grades 11-12) One-semester course

An instructional program that prepares individuals to understand the nature, function and significance of human relationships within the family/individual units. Includes instruction in concepts and principles related to various family living conditions, including abuse prevention: the establishment and maintenance of relationships, preparation development needs of individuals.
Material Requirements: A notebook or binder for project.

HOUSING: (Grades 10-12) One-semester course

An instructional program that prepares individuals to understand the physical, psychological, and social influences pertaining to the complex housing decisions required for creating a desirable living environment. Includes instruction in the human and environmental factors influencing the form and use of housing; the varied types of housing; costs; exterior and interior design; home furnishings and equipment; and the selection, use and care of available resources for achieving improved living space to meet individual and family needs.
Material Requirements: A notebook or binder for project.

INDEPENDENT LIVING: (Grades 11-12) One-semester course

An instructional program designed for students in upper grades with no previous family & consumer sciences instruction. Introductory experiences in all areas of family & consumer sciences are designed to help prepare students for multiple roles as individuals, and family members. Emphasis is placed upon values, decision-making, consumer skills, personal & family relationships, parenting, nutrition, and health.
Material Requirements: Students are responsible for purchasing sewing supplies

NUTRITION AND MEALS: (Grades 10-12) One-semester course

An instructional program that prepares individuals to understand the principles of nutrition; the relationship of nutrition to health and wellness; the selection, preparation, and care of food; meal management to meet individual and family food needs and patterns of living; food economics and ecology; optimal use of the food dollar; understanding and promoting nutritional knowledge; and application of related math and science skills.

No fee is charged, but if students want extra food supplies, they are responsible for the cost.

SUBJECT AREA: FOREIGN LANGUAGE

FRENCH I: (Grades 9-12) Two-semester course

Prerequisite: Recommended for students who maintain a “B” average or higher in English.

This course involves the learning of the basic listening, speaking, reading and writing skills in French.

FRENCH II: (Grades 10-12) Two-semester course

Prerequisite: French I with a “C” or better.

This course is the continuation of French I with emphasis on vocabulary and grammar.

FRENCH III: (Grades 11-12) Two-semester course

Prerequisite: French II with a “C” or better.

This course is the continuation of French II. The emphasis will be placed on the refinement of the speaking and writing skills as well as a more in-depth study of chosen grammar points. *Weighted*

FRENCH IV: (Grade 12) Two-semester course

Prerequisite: French III with a “C” or better.

This course is a continuation of French IV, with a special emphasis on complex reading, listening, speaking and writing skills. *Weighted*

SPANISH I: (Grades 9-12) Two-semester course

Prerequisite: Recommended for students who maintain a “B” average or higher in English.

This course involves the learning of the basic listening, speaking, reading and writing skills in Spanish.

SPANISH II: (Grade 9-12) Two-semester course

Prerequisite: Spanish I with a “C” or better.

This course is the continuation of Spanish I with emphasis on vocabulary and grammar.

SPANISH III: (Grades 11-12) Two-semester course

Prerequisite: Spanish II with a “C” or better.

This course is the continuation of Spanish II. The emphasis will be placed on the refinement of the speaking and writing skills as well as a more in-depth study of chosen grammar points. *Weighted*

SPANISH IV: (Grades 11-12) Two-semester course

Prerequisite: Spanish III with a “C” or better.

This course is a continuation of Spanish III, with special emphasis on complex reading, listening, speaking and writing skills. *Weighted*

SPANISH V: (Grades 11-12) Two-semester course

Prerequisite: Spanish IV with a “C” or better.

This course is a continuation of Spanish IV, with special emphasis on complex reading, listening, speaking and writing skills. *Weighted*

SUBJECT AREA: INDUSTRIAL TECHNOLOGY

ADVANCED INDUSTRIAL TECHNOLOGY: (Grades 11-12) Two-semester course

Prerequisite: Wood I, Wood II, Engineering Design I with 85%.

This course would allow students the opportunity to design and build their own woodworking project. The students will be responsible for developing their own plan which would include drawings, bill of materials, cost estimation, plan of procedures, and schedule and completion of the project.

ADVANCED DRAFTING: (Grades 11-12) Two-semester course

Prerequisite: Design I, Design II completed with a grade higher than a B

This course is for students who would like to further their knowledge and application of drafting software and techniques. Students will be able to explore in more depth Architectural or mechanical drafting as a career option.

DRAFTING / DESIGN: (Grades 11-12) Two-semester course

Prerequisite: Engineering Design I / II with an 85% and Instructor Permission.

This course would allow students the opportunity to complete a full set of technical drawing or 3-d parametric model of a mechanical object.

ENGINEERING DESIGN I: (Grades 9-12) One-semester course

Fee: ??

Prerequisite: Exploring Career Clusters

This course covers basic drafting and Computer Aided Design (CAD) with a focus on engineering graphics, the alphabet of lines, orthographic projection, multi-view drawings, dimensioning, design, and some problem solving will be introduced. Some projects will require materials provided by the students, and some activities will require students to pay for kits.

ENGINEERING DESIGN II: (Grades 9-12) One-semester course

Prerequisite: Pass Engineering Design I with an 85% or better.

This course will be an extension of Engineering design I and emphasis computer aided design with AutoCAD and e-d modeling to understand auxiliary views, section views, mechanical fasteners, cams and gears, and working drawings.

ENGINEERING DESIGN AND PROBLEM SOLVING:

Prerequisite: Instructor Permission.

This course would allow students the opportunity to design, build, and promote a vehicle to compete in the High Mileage Vehicle contest or the Electric Car challenge.

EXPLORATION OF TECHNOLOGY: (Grades 9-12) One-semester course.

Exploring Careers Course A provides an organized method for students to experience, through hands-on authentic scenario, real world occupations. Most importantly, Exploring Career Clusters provides a process for students to connect personal and education requirements to real world occupations. Course A covers Architecture and Construction, Science, Technology, Engineering, and Mathematics, and Manufacturing.

FOUNDATIONS OF TECHNOLOGY: (Grades 9 -12)

No Prerequisite:

This course will focus on technology literacy – how technology is created, how technology shapes society, and how society is shaped by technology. All people are affected by technology and will benefit by being familiar with it. This will be a hand-on course where students will become familiar with the application and use of technology.

INDUSTRIAL TECHNOLOGY: (Grades 9-12) One-semester course.

Fee: \$10.00 approximately - Exploring Careers Course B provides an organized method for students to experience, through hands-on authentic scenario, real world occupations. Most importantly, exploring career clusters provides a process for students to connect personal and education requirements to real world occupations. Course B covers Arts, A/V Technology, and Communications, Information Technology, and Transportation, Distribution, and Logistics.

WOOD WORKING I: (Grades 9-12) One-semester course

Fee: \$15.00

Prerequisite: None 08-09 (Exploring Career Clusters A or B in 09-10).

This course explores the basic hand and machine tool operations associated with woodworking. Emphasis will be on quality and craftsmanship. Students will learn basic fundamentals of wood technology including wood as a manufacturing material and basic machine processes. Students will construct a required project and are required to pay a \$15 shop fee to cover the cost of supplies for their project.

WOODWORKING II: (Grades 9-12) One-semester course

Fee: \$30.00 approximately

Prerequisite: Woodworking I with a grade of “B” / 85% or better.

This course will explore wood working more in depth. This course will focus on project planning and the use of jigs and fixtures to increase productivity in the production of parts and the final product. Students will learn more about the cabinetry and evaluation of quality furniture. Students will construct a required project and will be required to pay approximately \$30 to cover the cost of the materials for the project.

SUBJECT AREA: MATHEMATICS

ALGEBRA I: (Grades 9-12) Two-semester course

Prerequisite: Eighth grade teacher's recommendation or Pre-Algebra with "C" or better.

Algebra I is designed for the student who has mastered basic arithmetic skills. Topics covered include number relations, sentences, formulas, positive and negative numbers, polynomials, equations, graphs, systems of equations, factoring, special products, powers, roots and radicals. This course is intended to be the initial high school mathematics course for those students planning to attend a four-year college.

Materials Recommended: Scientific calculator (\$10)

ALGEBRA II: (Grades 10-12) Two-semester course

Prerequisite: Algebra I. (It is recommended that Algebra II be preceded by Geometry also.)

Algebra II is designed as further study of algebraic skills already developed in Algebra I. Included are such review topics as solving simple equations in one and two variables, factoring, distance formula, and graphing two variables. New topics include the quadratic formula, conic sections, trigonometric functions, and an in-depth investigation of functions. *Weighted*

Materials Recommended: Graphing calculator (\$100-\$120)

CALCULUS: (Grade 12) Two-semester course

Prerequisite: Algebra II and Trigonometry with a "C" or better or Instructor permission.

This course is designed as the final high school course in preparation for college. The content of this course includes such topics as trigonometric relations, and identities, limits, derivatives, and anti-derivatives. A major portion of the course is developed to the development of an understanding of Calculus and its applicability to life. Throughout the course an attempt is made to review mathematics taught in previous classes. It recommended that Geometry be taken previous to this course as well.

Materials Recommended: Graphing calculator (\$100-\$120) *Weighted*

COLLEGE ALGEBRA: (Grades 11-12) One-semester course DC

Prerequisite: "B" average in Algebra II and meet the requirements as described in Dual-credit Program descriptions. The topic covered include basic algebraic operations, equations and inequalities, graphs and functions, polynomial and rational functions, exponential and logarithmic functions, and systems of equations and inequalities. Algebra III is equivalent to College Algebra 103, Central Methodist College.

Materials Recommended: Graphing calculator (\$100-\$120) *Weighted*

GEOMETRY: (Grades 9-12) Two-semester course

Prerequisite: Algebra I with a "C" or above grade or 8th grade teacher recommendation

The Geometry course is designed to introduce the students to formal proofs, logic and abstract reasoning skills through the study of Geometric figures. The content of the course includes such topics as congruent and similar triangles, parallelism, right triangles, quadrilaterals, circles, and constructions, coordinate and transformational geometry. *Weighted*

Materials Recommended: Scientific calculator (\$10)

MATH ANALYSIS: (Grades 11-12) One-semester course

Prerequisite: Algebra II

Math Analysis is a semester study of discrete mathematics, data analysis, limits, and a brief introduction of Calculus. Emphasis is placed on applying math to the other sciences and laying the foundation for college level mathematics. *Weighted*

Materials Recommended: Graphing calculator (\$100-\$120)

STATISTICS: (Grades 11-12) One-semester course

Prerequisite: Algebra Two

The course is designed for any student requiring knowledge of the fundamental procedures for data organization and analysis. Topics will include frequency distributions, graphing, measures of location and variation, the binomial and normal distributions, z-scores, t-test, chi-square test, F-test, hypothesis testing, analysis of variance, regression, and correlation. This course is recommended for students planning to pursue post-secondary education. *Weighted*

TRIGONOMETRY: (Grades 11-12) One-semester course

Prerequisite: Algebra II

Trigonometry is a semester study of coordinate geometry, advanced functions, complex numbers, vectors, and trigonometric functions. Emphasis is placed on developing reasoning, problem solving, and application skills. *Weighted*

Materials Recommended: Graphing calculator (\$100-\$120)

SUBJECT AREA: MUSIC

BAND: (Grades 9-12) Two-semester course

Prerequisite: Basic knowledge of the instrument the student wishes to play.

The band will participate in football games, marching competition, pep band for basketball games, symphonic competitions throughout the year.

JAZZ BAND: (Grades 9-12) Two-semester course

Prerequisite: Audition.

The High School Jazz Band is an integral part of the overall band program. A serious effort is made to promote the growth and performance of jazz and related styles of music. Students are required to be enrolled in Marching/Concert Band, purchase a Jazz Band shirt, and agree to abide by the policies set forth by the Aurora High School Jazz Band. Performances are scheduled throughout the year to include concerts, contests, festivals, basketball games and public performances.

CHAMBER CHOIR (formerly show choir): (Grades 9-12) Two-semester course

Prerequisite: Audition.

Chamber Choir is intended for the advanced level *male* or *female* singer. This student enjoys a rigorous performance schedule. A recommendation/audition is required.

CHORUS (new course): (Grades 9-12) Two-semester course.

Prerequisite: Audition

Chorus is intended for the beginning level *male* or *female* singer. This student would likely have a desire to sing and improve his/her vocal skills. This student *could* advance to *concert choir* or *chamber choir*. Some performances will be required outside regular school hours. No recommendation/audition is required.

CONCERT CHOIR: (Grades 9-12) Two-semester course

Prerequisite: Audition.

Concert choir is intended for the intermediate level *female* singer. This student enjoys keeping a more rigorous performance schedule than chorus. This student could advance to *chamber choir*. A recommendation/audition is required.

MUSIC APPRECIATION: (Grades 9-12)

Students will study the role and importance of music in our lives. Students can enroll for either the *Fall Semester or the Spring Semester or both*. There is no prerequisite or recommendation needed for this course.

SHOW CHOIR: (Grades 9-12) Two-semester course

Prerequisite: Audition.

Members of this group utilize uniforms, high performance standards, and movement to put together a show. Students continue their vocal music training as they expand their knowledge as performers and musicians. This group has numerous performances and competitions throughout the year.

SUBJECT AREA: PHYSICAL EDUCATION

ADVANCED PHYSICAL EDUCATION: (Grades 9-12) Two-semester co-ed course

This course is an introduction to overall physical fitness. Students will learn and apply the elements of fitness: agility, balance, coordination, flexibility, muscular strength, muscular endurance, and cardiovascular endurance.

HEALTH: (Grades 9-12) One-semester course

The course is an investigation of current health topics focusing on preventive measures. Human anatomy is included to gain a better understanding of the effects of lifestyle decisions on the body.

PHYSICAL EDUCATION: (Grades 9-12) Two-semester course

This course is designed with emphasis on physical fitness and wellness integrated with team and individual sports.

PHYSICAL FITNESS: (Grades 10-12) Two-semester co-ed course

Prerequisite: Advanced Physical Education and/or *instructor recommendation.*

This course is for the advanced student/athlete and involves a more intense strength-training and fitness program to enhance performance in interscholastic sports.

SUBJECT AREA: SCIENCE

BIOLOGY I: (Grades 9-12) Two-semester course

Prerequisite: Unified Science or *Ninth grade teacher recommendation.*

This course is an introduction to the fields of cells, genetics, and ecology. Lab experience will include DNA synthesis, microbiology techniques, and dissections. Students will be required to do research and two major projects.

BIOLOGY II: (Grades 11-12) Two-semester course

Prerequisite: Biology I, Chemistry I *and/or teacher's recommendation.*

This class is designed for students considering a career in one of the fields of biological science. There will be a review of material from Biology I and Chemistry I, as well as an introduction of new materials. The primary emphasis will be human anatomy and physiology, and students will be required to participate in the dissection of cats. This is a weighted course designed to focus on basic structure and function of various systems in the human body; address health related issues and their affects on the body; research and discuss scientific theories and develop opinions concerning those issues; feature hands-on activities to facilitate learning (i.e. field trips, labs, research papers, and student projects). (Additional emphasis on genetics.) *Weighted*

CHEMISTRY I: (Grades 10-12) Two-semester course

Prerequisite: Unified Science and Algebra I or Applied Math I & II.

This course is designed to provide an introduction to the study of matter terms of the modern atomic theory. Through all understanding of atomic theory and the periodic law, the student will explore the relationships between ionic and covalent compounds and their properties. The student will name compounds and write their formulas and balanced chemical equations that describe electron interactions. Students will perform laboratory experiments that involve measurement, observation, calculation and drawing conclusions. *Weighted*

CHEMISTRY II: (Grades 11-12) Two-semester course

Prerequisite: Chemistry I and permission of the instructor.

This course is a continuation of Chemistry I with a focus on solutions and their properties, including acids, bases and reaction theory. The student will be expected to do independent lab work. This is a dual-credit course where students will learn chemical formulas, equations and Lewis structures are used to understand the atomic theory and composition of atoms, molecules, ions and compounds. The periodicity of the properties of the elements is related to both composition and structure. The energy changes that are involved in chemical reactions are investigated. The states and properties of matter are related. The course includes standard introductory college chemistry lab exercises. *Weighted*

EARTH SCIENCE: (Grade 9) Two-semester course (*Required for all freshmen*)

Earth Science is a science course devoted to the study of the Earth Sciences: Geology, Oceanography, Meteorology, and Astronomy. This course examines processes affecting the earth, and the evidence that shows how the earth has changed over time. Topics include earthquakes, volcanoes, plate tectonics, fossils, weather, the oceans, and the solar system.

ECOLOGY: (Grades 11-12) One-semester course

Prerequisite: Applied Science I, Biology I or *teacher recommendation.*

This course is designed for students interested in environmental science. It will focus on importance of biodiversity and preserving our natural resources. The topics covered in this course will include changes in ecosystems, interactions of organisms as well as processes and interactions of the earths systems. Participants will also be involved with Stream Team – water qualify/monitoring program.

PHYSICS I: (Grades 11-12) Two-semester course

Prerequisite: Algebra II and permission of the instructor.

Physics is a two-semester, weighted science course. Students are expected to demonstrate mastery of physics concepts both mathematically and verbally. The course will cover the topics of physics mechanics (velocity, acceleration, vectors, projectile motion, universal gravitation, momentum, work, energy); waves and light (energy transfer, sound, light, mirrors, lenses); and electricity (electric fields, current, circuits, magnetic fields, induction). These concepts will be taught through class discussions, lectures, labs, demonstrations, guest speakers, and field trips. The students will also do a research project dealing with a concept in physics. *Weighted*

PHYSICS FIRST: (Grade 9) Two-semester course (*Required for all freshmen*)

This course is a hands-on, activity driven Physical Science course. The subjects covered in this course are: uniform motion, accelerated motion, introduction to forces, Newton's Laws, free fall and 2 D motion, energy, momentum, astronomy and electricity. The emphasis in this course will be a conceptual understanding of physics principles rather than mathematical manipulation. We will be reinforcing skills such as solving equations, interpreting graphs, and reasoning proportionately.

SUBJECT AREA: SOCIAL SCIENCE

AMERICAN GOVERNMENT: (Grades 11-12) One-semester course *Required course for all juniors.*

Prerequisite: Global Studies and American History.

This course will focus upon the study of the U.S. Constitution and the Constitution of the State of Missouri. Students must pass examinations on the Federal Constitution and State Constitution to receive credit for this course.

AMERICAN HISTORY I: (Grades 10-12) Two-semester course *Required course for all sophomores.*

Prerequisite: Global Studies.

This course will study the major events that have shaped the U.S. in the 19th and 20th century. Current events will be an important part of this class.

COMPARATIVE RELIGIONS: (Grades 11-12) One-semester course

Prerequisite: Global Studies and American History.

A survey of world religions from their inception to today. Understanding the great impact they have had on the history and development of mankind to the present day.

CONTEMPORARY ISSUES: (Grades 11-12) One-semester course

Prerequisite: Global Studies and American History.

An analysis of events in shaping American society and the short and long term results they have on individual lives. A major area will be issues and controversies that effect American life.

ECONOMICS: (Grades 11-12) One-semester course

Prerequisite: Global Studies and American History.

This class will investigate the American economic system and its relationship to world economics. The course will study both macro and micro areas of economics.

GLOBAL STUDIES: (Grades 9-12) Two-semester course *Required course for all freshmen.*

The main content of this course will include the study of the principles of geography, cultures of major nations in the world and discussion of current world issues.

PSYCHOLOGY I: (Grades 11-12) One-semester course

Prerequisite: Passage of 9th and 10th grade required social studies courses.

This is an introduction to the study topics, which include human development, personality and abnormal behavior.

PSYCHOLOGY II: (Grades 11-12) One-semester course

Prerequisite: Psychology I.

Study topics on learning, social development, child psychology, testing, and research. *Weighted*

SOCIOLOGY: (Grades 11-12) One-semester course

Prerequisite: Global Studies and American History.

This is an introductory course in the study of human relationships. Group behavior, society, class systems and social problems will be major topics of study. *Weighted*

WORLD HISTORY I: (Grades 11-12) One-semester course

Prerequisite: Global Studies and American History.

This class will focus upon the events in World History from the Roman Empire to the French Revolution.

WORLD HISTORY II: (Grades 11-12) One-semester course

Prerequisite: Global Studies and American History.

This course takes into account the political, social, and economical issues during the 19th and 20th century. Current events will be a major part of this class.

SUBJECT AREA: SOUTHWEST AREA CAREER CENTER

Auto Collision Repair is a two-year program offering training in the following areas: I-car procedures in repairing unibody frames with the assistance of computerized Kansas Jack frame machines; measuring and mixing paint on DuPont and Martin Senour systems; auto refinishing with 2 & 3 stage techniques in down draft/bake paint booth; parts analysis of suspension & mechanical systems; replacement of glass and trim. *Recommendation: proficiency in standard/metric math skills and reading skills.*

Automotive Technology is a two-year program, which offers study and training in the diagnosis and repair of automobiles. The program is NATEF certified and taught by ASE Master Certified personnel. The program consists of study in the areas of brakes, suspension and steering, electrical, engine performance, heating and air conditioning, engines and power trains. Automotive safety is integrated throughout all phases of the course. Course syllabus is available upon request. *Recommendation: proficient reading skills.*

Business Computer Programming (has had a change in name and curriculum – see Software Development)

Business Technology is a two-year program, which provides student with the opportunity to gain the basic skills necessary for employment in an office or business related environment. Students learn techniques and receive training on equipment and software used in business and industry, with special emphasis on Microsoft Office 2003. Current technological trends in the business area will also be stressed.

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Recommendation: computer applications and keyboarding proficiency.

Child Care Provider is two-year program designed for students who desire to work in careers involving young children & their families. Students will have experiences with preschoolers. Students will be responsible for planning activities that stimulate a child's mental, physical, emotional and social growth. Trainees will learn to provide a safe, healthy and loving environment that will allow children to explore and develop their natural curiosity and imagination. Students enrolled in the class are required to have TB tests and background checks.

Recommendation: FACS class(es), especially child development

Computer-Aided Drafting (CAD) Technology is a two-year program that includes instruction in the construction of engineering drawings based on ASME engineering standards. Included in this class will be the fundamentals of geometric construction, orthographic projection for completing multi-view drawings, dimensioning and pictorial drawings. Residential architectural design is studied during the first year in addition to the basic engineering drawing. Second year students will continue study of the relationships of parts in assemblies to gain a deeper understanding of the fits and tolerance requirements for size definition used in engineering.

Recommendation: algebra and geometry.

Computer Maintenance & Networking is a two-year program that offers a study in computer repair, maintenance, and networking technology. Students will have the opportunity to develop a local area network (LAN) and to study networking systems and software programs.

Construction Technology is a two-year program, which offers study in residential construction. Study includes training for the job market in all areas of the construction phase. Students participate in the layout of footings & foundations, grade elevations, plan reading, rough & finish carpentry, and residential wiring.

Recommendation: industrial technology, science, algebra and geometry.

Culinary Arts is a two-year program, which prepares students to work in the hospitality industry. Units of study include sanitation, equipment safety, food preparation, knife skills, commercial kitchen equipment use, recipes and conversions, baking and cake decorating, table setting, customer service, job skills and interviewing skills, as well as leadership and character education. Students prepare and serve luncheons and banquets. The students compete in various local, state, and possibly national competitions. Students can obtain Pro-Start Certification and Serve-Safe Certification, which is endorsed by the National Restaurant Association Education Foundation.

Recommendation: FACS class(es) and applied math.

Diesel Technology (available for the first time in the fall of 2007)

Diesel Technology is for students who are interested in medium and heavy-duty diesels as found in today's transportation industry. This is a two-year program that follows NATEF (National Automotive Technicians Education Foundation) guidelines. Students will spend time in both classroom studies and in the laboratory developing hands-on skills. Live and simulated units will be used for instruction. Students must be interested in heavy-duty equipment repair and have some mechanical aptitude. Students need the ability to work with tools, sophisticated machines, solve problems, troubleshoot and develop professional customer service skills.

Recommendation: proficient reading skills

Graphic Communications is a two-year course preparing students to work in the graphics or sign making industry. Students will use graphic design software to produce professional quality print advertising, business materials, logo design, book layout, and posters and

calendars. Students use a digital camera to take pictures for photo manipulation. Students have the opportunity to make vinyl signs for a variety of projects such as banners, display, and windows.

Recommendation: proficiency in keyboarding and Applied Math

Health Occupations is a ONE-year program, which offers an introduction and orientation to health careers. Students work and learn in an actual health care environment, such as Cox Monett Hospital where they rotate in several different departments, or they may work for an individual in a private practice, such as a dentist, veterinarian or optometrist. *Recommendation: biology, chemistry, and algebra*

JROTC (Junior Reserve Officer Training Corps) program is designed to teach high school students the value of citizenship, leadership, service to the community, personal responsibility, and a sense of accomplishment, while instilling self-esteem, teamwork, and self-discipline. The focus is reflected in the mission statement, "To motivate young people to be better citizens." Instructors are retired military personnel. JROTC is not a recruitment program for the military. Although many graduating cadets pursue military training, equal numbers do not. Participation in JROTC incurs no military obligation nor is it intended to apply any pressure in that direction. Many scholarship opportunities are available for JROTC students entering college directly after high school.

Recommendation: Great for self-esteem and character building and leadership training

Machine Tool Technology is a two-year program in a rapidly changing field. This course provides additional instruction and practice in the use of precision measuring tools, blueprints, lathes, milling machines, grinders, and computer numerical controlled machines. Emphasis is on setup and operation of machine tools, including the selection and use of work-holding devices, speeds, feeds, cutting tools, and coolants. Upon completion, students should be able to perform basic procedures on precision grinders and advanced operations of measuring, layout, drilling, sawing, turning, and milling. Metalworking industries are expanding output and adding automatic and computer controlled machines. This is resulting in less demand for semi-skilled operators and increased demand for more highly skilled machinist, tool and die makers, jig and fixture builders, tool grinders, CNC technicians and quality control inspectors. For those

who have acquired a thorough background in machining operations, blueprint reading, math and a working knowledge of the properties of metals, the job outlook is good. *Recommendations: algebra and industrial technology.*

Application Development for the Web (name change from Software Development): This class is a beginner's course in computer programming. Samples of languages taught are HTML, Java Script, and Visual Basic.Net. Developing Web pages that can function like Amazon.com, Overstock.com and EBay will be a focal point. This course should help students make an informed decision about their career choices. This course will also provide a strong foundation for college education.

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Welding Technology is a two-year program which includes training in the following: safety procedures, welding symbols and terminology, and the following welding and cutting processes: SMAW-Shielded Metal Arc; GMAW-Gas Metal Arc; GTAW, Gas Tungsten Arc; OFW-M Oxy-Fuel Welding; OFC-M, Oxy-Fuel Cutting; PAC, Plasma Arc Cutting; print reading and basic layout. Second-year students will work on various projects and will have an opportunity for certification.

Recommendation: applied math and science.