

AGRICULTURE

- 650** *Principles of Agricultural Science & Technology* – This course provides instruction in the foundations of the various segments of the agricultural industry. Agricultural career opportunities will be emphasized. Animal science, plant and land science and agricultural mechanics skills will be the focus of the curriculum. The selection and planning of a supervised agricultural experience program and related record keeping will be presented. Leadership development will be provided through FFA. Students will receive personal guidance and counseling with preparatory instructional program selection
1 Credit (Grade level 9-12)
- 651** *Animal Science* – Animal Science develops basic knowledge and skills pertaining to livestock identification, selection, nutrition, reproduction and genetics, health management, and marketing of one of more species of farm animals. The latest biotechnological applications will be included. The content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program. *(Must be taken in conjunction with Plant Science)(Formerly Agriscience)* *Prerequisite:* Principles of Agricultural Science and Technology
½ Credit (Grade level 10-12)
- 652** *Plant & Land Science* – Plant and Land Science develops basic scientific knowledge and skills pertaining to management of the land and its effects on food and fiber production, the environment, and the quality of life. The relationship of land to plant growth will be emphasized. Plant composition, reproduction, growth and current biotechnological advances will be included. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program. *(Must be taken in conjunction with Animal Science) (Formerly Agriscience)* *Prerequisite:* Principles of Agricultural Science and Technology.
½ Credit (Grade level 10-12)
- 653** *Small Power Equipment* – This course is designed to develop skills in maintenance, repair and operation of equipment, small combustion-type engine and electric motors. This course will require use of physics and mathematics. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program. *Prerequisite: Principles of Ag Science & Tech, Plant & Land Science/Animal Science.*
1 Credit (Grade level 11-12)

672 *Ag Construction Skills I* – Prepares students to construct and maintain agricultural structures and equipment. Develops basic skills such as: tool identification, interpreting plans, calculating a bill of materials, electrification, carpentry, welding, metal fabrication, plumbing and masonry. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program. Classroom instruction will be provided for the understanding of electricity, woodworking, plumbing, concrete, surveying, rafter construction and other agricultural construction skills. *Prerequisite: Principles of Agricultural Science & Tech, Plant & Land Science/Animal Science*

1 Credit (Grade level 11-12)

673 *Ag Construction Skills II* – Prepares students to construct and maintain agricultural structures and equipment. Develops basic skills such as: tool identification, interpreting plans, calculating a bill of materials, electrification, carpentry, welding, metal fabrication, plumbing and masonry. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program. Classroom instruction will be provided for the understanding of metalworking, welding, and other large projects. Construction skills will be mastered with building projects. *Prerequisite: Principles of Agricultural Science and Technology, Plant & Land Science/Animal Science and Ag Construction Skills I.*

1 Credit (Grade level 11-12)

662 *Equine Science* – Equine science develops knowledge and skill pertaining to breed identification and selection, anatomy, physiology, nutrition, genetics and reproductive management, training principles, grooming, health disease, parasite control and sanitation practices of horses. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have an agricultural experience program. *Prerequisite: Principles of Agricultural Science and Technology, Plant & Land/Animal Science*

1 Credit (Grade level 11-12)

656 *Ag Business/Farm Management* – This course introduces the free enterprise system, the study of economic principles, risk management, business law, budgets, finance, recordkeeping, and careers in agribusiness. Basic skills will be developed to manage a farm or agribusiness. Material will include: managing production/inventory, equipment, credit and taxes, market analysis and developing a business/farm plan. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program. *(Must be taken in conjunction with Ag Employment Skills)(Must be taken in order*

to qualify for the Ag Coop I & II) Prerequisite: Principles of Agricultural Science and Technology, Plant /Land Science

½ Credit (Grade level 11-12)

- 667** *Ag Employment Skills* – Agricultural employability skills provides opportunities to develop skills in: job searching, preparing resumes, writing letters of application, job interviews, attitude at work, communicating effectively, human relations and accepting responsibilities. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program. (Must be taken in conjunction with Ag Business/Farm Management)(Must be taken in order to qualify for Ag Coop I & II) Prerequisite: Principles of Agricultural Science and Technology, Plant/Land & Animal Science.
- ½ Credit (Grade level 11-12)**

- 665** *Landscaping & Turf Management* – This course combines landscaping and turf management curriculum. The material includes identification of landscape plants and their characteristics, site evaluation, site design, calculation of materials needed, costs for bidding, and installing landscape plans. Landscape plant maintenance will also be presented. Selection, culture and management of turf species used for lawns, golf courses, athletic fields and erosion control may also be included. Utilizing appropriate technology may enhance content. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program. (Must be taken in conjunction with Floral Design or Food Technology)
- ½ Credit (Grade Level 11-12)**

- 660** *Floral Design* – Floriculture and floral design provides instruction to develop floral design techniques using silk, dried and fresh flowers. Students will learn operation and management techniques of a florist business as well as identification, production and cultural maintenance practices of plants used in floral design and interior landscaping. Utilizing appropriate technology may enhance content. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program. (Must be taken in conjunction with Landscaping & Turf Management)
- ½ Credit (Grade Level 11-12)**

- 657** *Greenhouse Tech I-* Greenhouse Technology provides instruction in greenhouse structures and greenhouse environment regulations. Plant growth and development and propagation are included as well as production and maintenance of bedding and container produced plants. Fundamental principles of vegetable production and commercial production of vegetable crops may be included. Content may be enhanced with appropriate technology. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program.

- 658 **Greenhouse Tech II** – See description above. *Prerequisite: Greenhouse Tech I*
659 **Greenhouse Tech III** – See description above. *Prerequisite: Greenhouse Tech II*
1-3 Credits (Grade level 11-12)

663 **Animal Technology** – Animal Technology instruction concentrates on the advanced production practices and current biotechnological applications of one or more species of farm animals, based on the local community needs. An hands-on experience will be emphasized. Utilizing appropriate computer applications may enhance content. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program. *(Must be taken in conjunction with AP (Advanced) Animal Science)*
½ Credit (Grade level 11-12)

671 **AP (Advanced) Animal Science** – A freshmen-level college course which introduces students to a survey of genetics, reproductive physiology, growth and development, nutrition and digestive physiology, anatomy, meat science and overviews of the dairy, poultry, equine, beef, sheep, swine and aquaculture industries. Opportunity is provided for students to earn three (3) hours of introductory college credit. Content may be enhanced by utilizing appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have an agricultural experience program. *(Must be taken in conjunction with Animal Technology)*.
½ Credit (Grade level 11-12)

654 **Ag Food Technology** – Introduces the issues of world food production and the preparing, processing and packaging of food. The government regulations regarding foods and the exploration of career opportunities will also be covered. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program. *(Must be taken in conjunction with Landscaping & Turf Management)*
½ Credit (Grades 11-12)

675 **Agricultural Coop I** – The purpose of Cooperative Place for Experience in Agribusiness Education (Cooperative Education) is to provide occupational training for those students who need experience in their chosen occupational area. This type of training can be provided by placement with farms, agricultural machinery dealerships, farm supply stores, nurseries, greenhouses, or other agriculturally related businesses. This class is a program of vocational education between the student, school and employer. Students may receive credit if they meet the requirements of the program. *Prerequisite: Agricultural Science and Technology, Plant/Land Science & Animal Science and other agriculture elective. Ag Business Skills/Farm Management & Ag Employment Skills must have been previously taken or be taken in conjunction with this course.*
1 Credit (Grade level 12)

676 *Agricultural Coop II* – See description above. *Prerequisite: Agricultural Science & Technology, Plant/Land Science & Animal Science and other agriculture elective. Ag Business Skills/Farm Management & Ag Employment Skills must have been previously taken or be taken in conjunction with this course.*

1 Credit (Grade level 12)

677 *Agricultural Math* – The primary intent in Agricultural Mathematics is to provide a relevant review of basic arithmetic, statistical interpretation and algebraic concepts to prepare students for mathematics involved in other agriculture and horticulture courses. The application problems use current and realistic agricultural situations similar to those encountered by professionals engaged in agriculturally related occupations and industries. Math plays an important part in everyone’s life, but the increasing complexity of agricultural technology makes it mandatory that workers in agricultural occupations have skills in the analysis and solutions of mathematical problems. This will be a fun, yet challenging class that links math to agriculture. This course may count as a 4th math credit.

Prerequisites: Algebra I, Geometry and Algebra II or Intermediate Algebra II.

1 Credit (Grade level 12)

AUTOMOTIVE TECHNOLOGY

809 *Automotive Technology I* – This class is developed for students who may or may not want to pursue a career in Automotive Technology. Students will learn shop safety, they will learn basic parts and functions of the automobile and how to care and service their own vehicles. This class will also focus on: ADX-120 Basic Electricity, AUT-110 Brake Systems Fundamentals and AUT-140 Basic Fuel Systems Fundamentals.

1 Credit (Grade level 10-12)

801 *Automotive Technology II* – This class is developed for student competencies in shop safety, diagnosing and repairing damaged or malfunctioning components and/or systems of the automobiles including: AUT-111 Brake Systems Lab, ADX-121 Electricity Lab, AUT-141 Fuel Systems Lab, QUT-142 Emission Lab, ADX-150 Engine Repair, AUT-160 Steering and Suspension. *Prerequisite: Auto I*

1 Credit (Grade level 10-12)

802 *Automotive Technology III (all-year class)* – This class is structured for advance learning, this class involves both theoretical approaches as “hands-on” instruction. This course will cover all eight areas of the Automotive Technology. They are: AUT-111A Advance Brake Systems (ABS), ADX-121A Adv Electrical systems and lab, AUT-130 Manual Transmission, AUT-130A Manual Transmission Lab, AUT-141A Adv Fuel Systems Diagnoses Lab, AUT-143 Emissions Systems,

ADX-151 Engine Repair Lab, AUT-161 Steering and Suspensions Systems, ADX-171 Climate Control, AUT-180 Automatic Transmissions, AUT-181 Automatic Transmissions Diagnoses Lab, AUT-240 Computer Control Systems, AUT-241 Computer Control Systems and Diagnoses Lab. *Prerequisite: Auto II*
2 Credits (Grade level 11-12)

804 *Automotive Technology Coop I* – Coop is limited to seniors only. Students must have been enrolled in a specific program long enough to accumulate specific occupational competencies. Students must be making satisfactory progress in the vocational program. Also, students must have the recommendation of the instructor and/or teacher/coordinator as being ready to begin work in an on-the-job training program.
1 Credit (Grade level 12)

805 *Automotive Technology Coop II* – *Prerequisite: Auto Coop I*
1 Credit (Grade level 12)

BUSINESS EDUCATION

759 *Computer & Technology Applications*
9759 *Computer & Technology Applications Y* - This course is designed to provide students with an entry-level experience with practical applications through “hands-on” instruction. The student will become familiar with the use of the computer as a tool for work/personal applications, computer-related careers, and computer terminology. Course content will also include: Word Processing, Graphing, Spreadsheets and Desktop Publishing.
1 Credit (Grade level 9-12)

752 *Multimedia Publishing* – This hands-on course applies publishing and presentation concepts through the development of sophisticated business documents and projects. These documents include but are not limited to, tri-fold brochures, manuscripts, reports, bi-fold programs, catalogs, newsletters, flyers, business forms, graphs, web pages, on-screen presentations and video productions. Equipment such as scanners, digital cameras, video cameras and color laser printers may be utilized in creating the documents. Formatting, editing, page layout and design concepts are taught. Distribution ready publication standards are applied to all projects. Students will develop communication skills, problem-solving techniques, cooperative learning and interpersonal skills. *Prerequisite: Computer & Technology Applications*
1 Credit (Grade level 10-12)

- 753** *Advanced Multimedia Publishing* – Formatting, editing, layout and design concepts are reviewed and reinforced. Students will complete advanced projects agreed upon with the instructor utilizing hardware and software available. The course is designed around the learning goals of the students and is all project-based. This hands-on course applies advanced design, publishing and presentation concepts through the development of sophisticated documents and projects which includes but not limited to: brochures, newsletters, magazine covers, note cards, invitations, agenda cover, FBLA projects, web pages, video editing and production. Distribution ready publication standards are applied to all projects. Software that will be utilized include InDesign, PhotoShop, PageMaker, Illustrator, PowerPoint, MovieMaker, PhotoStory, Dreamweaver, etc. Peripherals may include scanners, digital cameras, video cameras, photos, clipart, music library, CDs, Internet sources, color printers, etc. *Prerequisite: Computer & Technology Applications and Multimedia Publishing*
1 Credit (Grade level 11-12)
- 765** *Advanced Computer & Technology Applications* – This class focuses a lot of time on daily office procedures and terminology including the layout, supplies and employment in an office, finding and keeping a job, itineraries for personal and business trips, prepare correspondence, play the stock market, correctly answer phones and take messages, send and process mail, maintain a filing system, complete the FBLA format guide, etc. This course is also a limited extension of Computer and Technology Applications and will include an advanced understanding of various software such as Microsoft Word, Excel, PowerPoint, Access, Publisher and Outlook. Upon completion of this course, a student will be ready to take the Administrative Support Skills Standards Assessment and possibly the MOS Certification. Most of the class will be geared toward preparing for the Administrative Support Assessment. *Prerequisite: Computer & Technology Applications*
1 Credit (Grade level 10-12)
- 766** *Advanced Computer & Technology Applications Coop I* – *Prerequisite: Advanced Computer & Technology Applications.*
1 Credit (Grade level 12)
- 767** *Advanced Computer & Technology Applications Coop II* – *Prerequisite: Advanced Computer & Technology Applications Coop I.*
1 Credit (Grade level 12)
- 741** *Special Topics in Multimedia I* – (formerly known as *Publications I* or *Journalism I*) An overview of the business and design sides of professional publication creation. Subjects to be covered are marketing, advertising sales, page layout, principles of design, and photography. Course would be performance-based, with the completion of the school yearbook as a performance-based assessment. A professional portfolio of original designs is required for course

- credit. *Prerequisite: Application approval by registration deadline of the previous school year.*
- 1 Credit (Grade level 10-12)**
- 742** *Special Topics in Multimedia II* – Prerequisite: Special topics in Multimedia I and application approval by registration deadline of the previous school year.
- 1 Credit (Grade level 10-12)**
- 743** *Special Topics in Multimedia III* – Prerequisite: Special topics in Multimedia II and application approval by registration deadline of the previous school year.
- 1 Credit (Grade level 10-12)**
- 744** *Special Topics in Multimedia IV* – Prerequisite: Special topics in Multimedia III and application approval by registration deadline of the previous school year.
- 1 Credit (Grade level 10-12)**
- 745** *Special Topics in Multimedia V* – Prerequisite: Special topics in Multimedia IV and application approval by registration deadline of the previous school year.
- 1 Credit (Grade level 10-12)**
- 746** *Special Topics in Multimedia VI* – Prerequisite: Special topics in Multimedia V and application approval by registration deadline of the previous school year.
- 1 Credit (Grade level 10-12)**
- 770** *Multimedia Publishing Coop I* – Prerequisite: Computer & Technology Applications and Multi Media Publishing.
- 1 Credit (Grade level 12)**
- 771** *Multimedia Publishing Coop II* – Prerequisite: Computer & Technology Applications, Multi Media Publishing and Multi Media Publishing Coop I
- 1 Credit (Grade level 12)**
- 756** *Financial Math* – This course is designed to provide students with the knowledge and skills to manage one’s financial resources effectively for lifetime financial security. Topics include economics, money in the economy, budgeting, credit, consumer rights, investments and retirement planning. Leadership development will be provided through FBLA/DECA. This course may count as a 4th math credit.
- 1 Credit (Grade level 12)**
- 758** *Microsoft Office* - As an extension of Computer and Technology Applications and even Advanced Computer and Technology Applications, students will have the opportunity to increase/advance their computer skills in Microsoft Word, Excel, PowerPoint, Publisher, Access and Outlook. The students will create real-world documents and publications using the software mentioned. The students

will also identify individual work habits/ethics and explain their importance in the workplace as well as research and analyze career opportunities. Students will work toward MOS/MCAS certification in one of more of the Microsoft areas. In addition, students will utilize Internet access to complete various projects and incorporate FBLA leadership development through the projects. *Prerequisite: Computer & Technology Applications*

1 Credit (Grade level 11-12)

757 *Web Page Design* – Students analyze the structure of the worldwide web, apply basic principles of web documents, HTML, JavaScript and develop multimedia web pages. Course content will include the understanding of hypertext and web structures. Equipment such as scanners, digital and video cameras and sound recording devices may be utilized through hands-on instruction. Leadership development will be provided through FBLA. *Prerequisite: Computer & Technology Applications*

1 Credit (Grade level 10-12)

755 *Financial Accounting* – The accounting principles taught in this course include an in-depth study of accounting principles, procedures and techniques used in keeping financial records for sole proprietorships, partnerships and corporations. There is an emphasis on automated accounting. Topics include a more analytical approach to accounting. Leadership development will be provided through FBLA. *Suggested Prerequisite: Accounting & Finance Foundations*

1 Credit (Grade level 10-12)

754 *Accounting and Finance Foundations* – This course will provide an introduction to both areas of accounting and finance. Topics will include banking, credit, financial literacy, career exploration, spreadsheet usage and technical writing. The accounting principles taught in this course are based on a double-entry system and include preparing bank reconciliations, payroll taxes and financial statements. Detailed career exploration in the various fields of accounting will be available. Technical writing will be provided through IPAC business plan curriculum and exploration of case studies. Leadership development will be provided through FBLA.

1 Credit (Grade level 9-12)

772 *Financial Accounting Coop I* – *Prerequisite: Computer & Technology Applications, Accounting & Finance Foundations and Financial Accounting I*

1 Credit (Grade level 12)

773 *Financial Accounting Coop II* – *Prerequisite: Computer & Technology Applications, Accounting & Finance Foundations, Financial Accounting and Financial Accounting Coop I*

1 Credit (Grade level 12)

- 760** *Financial Services I (Patriot Financial Bank)* - The course is an intensive study of economical and financial procedures and concepts. It also involves a student financial center that provides application of banking and financial concepts. The banking students develop and manage the financial center through US Bank whose employees work as consultants. *Prerequisite: Accounting & Finance Foundations* **1 Credit (Grade level 10-12)**
- 762** *Financial Services II (Patriot Financial Bank)* – See description above with the exception of grade level. **1 Credit (Grade level 11-12)**
- 768** *Financial Service Coop I* – *Prerequisite: Financial Services I and II* **1 Credit (Grade level 12)**
- 769** *Financial Service Coop II* – *Prerequisite: Financial Services I, Financial Services II and Financial Service Coop I* **1 Credit (Grade level 12)**

CAREER EDUCATION

- 835** *Career Options-*
- 9835** *Career Options Y* – Career Options is a course at the secondary level focusing on orientation to careers. The course is designed for all students, including special populations. Course content focuses on orientation to 14 career clusters, employability skills, self-management and work ethics. Opportunities are provided for the development of problem solving, decision making, reasoning and learning/study skills through school and work-based learning experiences. **1 Credit (Grade level 9-12)**
- 836** *Career Networking -*
- 9836** *Career Networking Y* – Career Networking continues the Career Option course and provides opportunities for exploration of the career clusters with an in-depth focus on two or more clusters. The curriculum includes a continuum of employability and computer skills needed in the workplace. Upon completion of the course, students have an opportunity to select a career major. *Prerequisite: Career Options* **1 Credit (Grade level 10-12)**

COOPERATIVE EDUCATION

COOPERATIVE (CO-OP)

Enrollees in cooperative education must complete the basic skill prerequisites required by the occupational program they are pursuing and be recommended by their teacher with a teacher signature granting permission to enroll before placement in a cooperative training station. Student must be enrolled in at least their third class of a career major and must be enrolled in a related class during the school year. Coop students will have to find an acceptable place of employment and should have employment by the time school starts but must have employment within the first five school days of the year.

DRAFTING

- 811** *Drafting Fundamentals* – This combined lecture and lab course introduces the development of drafting and the drafting processes. Students will use and maintain equipment and supplies; determine line weights; measure and read line lengths by using drafting scales; measure angles; and draw lines, circles, arcs and irregular curves by using various drafting tools. Areas covered are freehand and mechanical lettering, geometric construction, freehand sketching and beginning orthographic projection. The characteristics of lines and planes as they relate to orthographic projection and the principles of orthographic projection to show the size and shapes of projects are presented. Dimensioning techniques will be applied to orthographic drawings. *Prerequisite: None*
1 Credit (Grade level 9-12)
- 812** *Introduction to Computer-Aided Drafting* – This combined lecture and lab course is designed to introduce the student to the terminology, capabilities and various applications of interactive computer graphics. It involves hands-on use with a graphic design workstation and the application of the fundamentals of computer assisted drafting. This course emphasizes skill development of basic computer drafting commands, techniques exploration and in-depth study of command utilization as they apply to industrial applications. *Prerequisite: Drafting Fundamentals*
1 Credit (Grade level 9-12)
- 817** *Introduction to Architecture* – This lecture and lab course provides a practical approach to architectural drafting. This course is an introduction to board and

computer aided drafting as it relates to residential and commercial architecture, specifications and structural systems including wood, masonry, concrete and steel. Students will design their own residential project and complete all necessary drawings. *Prerequisite: Drafting Fundamentals and Introduction to Computer Aided Drafting*

1 Credit (Grade level 10-12)

818 *Architectural Design* – This lecture and lab course combines the elements and fundamentals of architectural design with the theory and application of presentation techniques. This course deals with site selection, use of materials in design, spatial relationships and aesthetics. Traditional and contemporary design, designers, processes and historical milestones are explored. Board and computer techniques are used in illustrating interiors and exteriors of student designs. *Prerequisites: Drafting Fundamentals, Introduction to Computer Aided Drafting and Introduction to Architecture*

1 Credit (Grade level 10-12)

814 *Intermediate Computer-Aided Drafting* – This course is designed to introduce the student to creating symbol libraries and symbol construction. The student will learn construction of assembly drawings through file manipulation and demonstrate advanced command structure. It allows the student to explore computer drafting in-depth and to increase skill. This course will introduce the student to 3D solid models. It will allow the student to use the advanced functions of rendering. *Prerequisites: Drafting Fundamentals and Introduction to Computer Aided Drafting*

1 Credit (Grade level 10-12)

816 *Parametric Modeling* – Formerly known as Advanced CAD, this course is designed to explore the techniques associated with drafting and design using Parametric modeling software (3D software). It introduces creation of parametric (3D) models and explores the rendering and animation associated with three-dimensional drawings. *Prerequisites: Drafting Fundamentals, Introduction to Computer-Aided Drafting and Intermediate Computer-Aided Drafting*

1 Credit (Grade level 11-12)

810 *Drafting Coop I* – Cooperative Education provides supervised on-the-job work experience related to the students educational objectives. Students participating in the cooperative education program receive compensation for their work. *Prerequisite: Permission of Instructor.*

1 Credit (Grade level 12)

FAMILY & CONSUMER SCIENCES

- 601** *FCS (Family & Consumer Science) Life Skills* - This comprehensive course provides an opportunity for acquiring basic life skills and allows students to select specific areas for concentrated study. Emphasis is on work and family, adolescent development, selection and care of clothing, consumer spending, housing choices, challenges of child rearing and guidance in establishing relationships. Personal financial responsibility of student: recipe box and cards, garment construction fabric and sewing equipment (estimated cost is approximately \$15).
1 Credit (Grade level 9-12)
- 603** *Foods & Nutrition* - This course addresses the practical problems related to food provision, attitudes toward food, nutrition facts, special health concerns and diets, management of food resources, preparation skills, consumer skills, and awareness of careers in nutrition and food services. Laboratory experiences are provided in the selection, planning and preparation of food products.
1 Credit (Grade level 10-12)
- 604** *Adv Foods & Nutrition* – This course is designed to assist students in principles related in principles related to food preparation. Specific content addressed will include planning, serving, food presentation, special diets and nutrition for the lifespan, serving and food planning for entertainment services. An emphasis on careers related to food service and nutrition (i.e. catering, dietician and other culinary careers). Lab instruction emphasizes the application process. Leadership development will be provided through the Family, Career and Community Leaders of America (FCCLA). *Prerequisite: Foods & Nutrition*
1 Credit (Grade level 10-12)
- 606** *Child/Human Development* - This course addresses the practical problems related to understanding the types and stages of human growth. Students will learn to recognize effects of heredity and environment on human growth and development, meeting the needs of exceptional children, promoting optimum growth and development in the infancy, toddler and preschool stages. Careers in child/human development are explored. *No prerequisite.*
1 Credit (Grade level 10-12)
- 608** *Parenting* - This course is designed to aid students in developing parenting and care giving skills that can be applied in a variety of situations. Major topics include becoming an informed parent, caring for the newborn, being an effective parent/caregiver, caring for the sick and elderly and exploring career opportunities in care giving. *No prerequisite.*
1 Credit Grade level 10-12)

- 614** *Relationships* - This course assists students to develop self-understanding, understand others better, improve interpersonal skills both within and outside the family, be more considerate of other person's needs and property and maintain mental and emotional wellness. Family life education comprises a portion of this course, including dating and married relationships. Preparations for and the achievement of a successful marriage are emphasized. Leadership development will be provided through the FCCLA (Family, Career and Community Leaders of America). *No prerequisite.*
- 1 Credit (Grade level 10-12)**
- 609** *Culinary Skills* - This course is designed to provide training for employment in hospitality services in the area of food service. Career decisions and demands on family life are explored as well as skills and concepts related to supportive services such as public relations, food and beverage operations, management techniques and entrepreneurship. Instruction will include on-the-job experiences. *Prerequisite: Foods & Nutrition*
- 1 Credit (Grade level 10-12)**
- 624** *Money Skills* – This course is designed to prepare students to understand and use sound financial management skills and practices contributing to financial stability, improving the quality of life for individuals and families. Decision-making, problem solving, goal setting and using technology are integrated throughout the content.
- 1 Credit (Grade level 10-12)**
- 625** *Fashion & Interior Design I* – This course provides opportunities for students to develop career competencies in the fashion and/or interiors industry by applying information related to social economic and media influences. Students apply knowledge of design principles and processes through skill performance activities. *Prerequisite: FCS Life Skills*
- 1 Credit (Grade level 10-12)**
- 626** *Fashion & Interior Design II* – This course provides opportunities for students to develop career competencies in the fashion and/or interiors industry. Practical problems include advanced textile construction techniques and/or the creation of floor plans using technological resources. Entrepreneurial opportunities will be explored. Application of skills will occur in a variety of work sites. *Prerequisite: FCS Life Skills and Fashion & Interior Design I*
- 1 Credit (Grade level 10-12)**

HEALTH SCIENCES

820 *Principles of Health Science* – Principles of Health Sciences is an orientation to the health care cluster consisting of the two career majors: Pre-Nursing & Allied Health. This course is designed to develop and enhance an understanding of the roles and responsibilities of each career major. Communication and leadership skills will be emphasized as the student learns about the health care industry and career opportunities available. Upon successful completion of this course, the student will be able to focus on a career path and make informed choices for continuing education or work experience.

1 Credit (Grade level 9-12)

822 *Medical Terminology & Emergency Procedures* - An in-depth study of medical terminology including word roots, prefixes, suffixes, combining forms, acronyms and medical abbreviations. Emphasis will be on correct pronunciation, spelling and application of medical terms in preparation for careers in the health care industry. The Emergency Procedures course will focus on current emergency techniques relative to cardiac and/or respiratory arrest and emergency situations. It is designed to promote an understanding of the effects of microorganisms on the human body and will include Universal Precautions necessary for personal and professional health maintenance and infection control. Successful completion of this course will qualify a student to become certified in AED, First Aid and Cardiopulmonary Resuscitation (CPR) as required by standards set forth by American Red Cross, American Heart Association and National Safety Council.
Prerequisites: Principles of Health Science.

1 Credit (Grade level 10-12)

823 *Health Care Fundamentals COOP I -*

824 *Health Care Fundamentals COOP II* – This Career Major course is designed to integrate meaningful work-site experiences with prior knowledge and educational objectives. Emphasis will be on the student's ability to develop skills at a proficient level in a clinical situation. It is the student's responsibility to obtain a salaried position with a health care related facility that provides services on a daily basis. Students are required to work a minimum of 10 hours per week in a salaried position (705 KAR 4:041). Students participating in the Practicum must meet all requirements of the affiliating agency. These requirements may include documentation of a current 2-step TB skin test, an up-to-date immunization record (including Hepatitis B status) and may also include drug screening and criminal background check. **THESE COSTS MAY BE THE STUDENTS RESPONSIBILITY.** Students must have their own transportation to the clinical

site. *Prerequisites: Principles of Health Science, Medical Terminology & Emergency Procedures must be completed prior to a cooperative experience.*

1-3 Credits (Grade level 12)

827 Advanced Health Care Skills I (Medicaid Nurse Aid Training)

828 Advanced Health Care Skills II (Medicaid Nurse Aid Training) - This course is designed to provide knowledge, concepts and psychomotor skills necessary for gainful employment as an entry-level health care worker. Classroom instruction and educational objectives are combined with clinical learning experiences. The work-site experience allows students to develop proficiency in skills and does not include monetary compensation. Upon successful completion of the classroom and clinical requirements, the student will be eligible to take the state examination for Medicaid Nurse Aid. Students must meet all requirements of the affiliating clinical facility. These requirements include documentation of a current 2-step TB skin test, an up-to-date immunization record (including Hepatitis B status), and may also include drug screening and criminal background check. **THESE COSTS MAY BE THE STUDENTS RESPONSIBILITY.** Students are also required to purchase professional liability insurance. This course adheres to the guidelines set forth by The Nursing Home Reform Act. (OBRA, 1987) Any student planning to pursue a Nursing career is encouraged to complete this course prior to graduation. *Prerequisite: Principles of Health Science and Emergency Procedures/Medical Terminology*

2 Credits (Grade level 11-12)

INDUSTRIAL MAINTENANCE

785 *Electrical Principles & Lab* – This course introduces the theory of electricity and magnetism and the relationship of voltage, current, resistance and power in electrical circuits. The course is designed to develop an understanding of alternating and direct current fundamentals. Students will apply formulas to analyze the operation of AC and DC circuits. The basic AC and DC lab course allows the student to verify basic theory by making measurements in working AC and DC circuits. Various types of circuits are constructed and their parameters measured. The use of test equipment, safety and troubleshooting are stressed.

1 Credit (Grade level 9-12)

786 *Fluid Power & Lab* - This course is a study of fluid power theory, component identification and application, schematic reading and basic calculations related to pneumatic and hydraulic systems and their operations. The lab course provides practical experiences in the study of fluid power theory, hydraulics and

pneumatics component identification, schematic reading and basic calculations related to hydraulic and pneumatic systems and their operations.

1 Credit (Grade level 10-12)

787 *Electrical Motor Controls I & Lab* – This course addresses the diversity of control devices and applications used in industry today. Safety and electrical lockouts are also included. *Prerequisites: Electrical Principles & Lab*

1 Credit (Grade level 10-12)

788 *Arc Welding & Lab* – Teaches students the identification, inspection and maintenance of SMAW electrodes; principles of SMAW; the effects of variables on the SMAW process to weld plate and pipe; and metallurgy. Also provides laboratory experiences in which the student acquires the manipulative skills to perform fillet welds in all positions. *Elective course for Career Major.*

1 Credit (Grade level 9-12)

789 *Welding for Maintenance & Lab* - This course will provide basic instruction and skills needed for student to weld using SMAW, MIG, TIG and Oxy-Fuel. *Elective course for Career Major. Prerequisite: Arc Welding & Lab*

1 Credit (Grade level 10-12)

MARKETING

712 *Business Principles & Applications* - This course establishes basic foundations for further study in business and marketing courses and provides essential information for making financial and economic decisions. Students learn about the fundamentals of the American free enterprise system and world economies; application of sound money management for personal and family finances; credit management, consumer rights and responsibilities; forms of business ownership; risk and insurance; and the importance of international trade.

1 Credit (Grade level 9-10)

704 *Principles of Marketing* – This course provides a basic foundation for further study in marketing. Students study economic functions at work in the marketplace, marketing functions including purchasing, pricing and distribution functions. This course is based on the business and marketing core that includes communication skills, economics, financial analysis and promotion. Both marketing and employment skills learned will improve and increase the chance of successful transition into the world of work. Leadership development will be provided through DECA activities and competitive events.

1 Credit (Grade level 9-12)

- 701** ***Retail Marketing*** – This course is designed to provide an overview of the marketing responsibilities of individuals employed in the retail industry. Emphasis is placed on application of knowledge in such areas as mathematics, human relations, distribution, purchasing and selling. Employment in school-based or work-based enterprises is recommended in order to give students the opportunity to apply newly acquired skills. The National Retail Skill Standards are integrated into this course giving students the opportunity to receive Retail Skill Standards certification. Leadership development will be provided through DECA.
- 1 Credit (Grade level 10-12)**
- 702** ***Business Management*** - This course offers the student the opportunity to concentrate on areas in the business management field while still pursuing a strong academic course of study. This course presents the fundamentals of global economics, legal rights and responsibilities of business managers and business structures. Opportunities are available for students to explore careers available in management, finance, accounting, marketing, human resources, business ownership and corporate law.
- 1 Credit (Grade level 11-12)**
- 706** ***Fashion Marketing*** – This course is designed for students interested in careers in the apparel and accessories industry. The instruction includes fashion trends, textiles and marketing, sales, fashion show production, promotions, buying and management and store operations.
- 1 Credit (Grade level 11-12)**
- 703** ***Advanced Marketing*** – These courses emphasize day-to-day management functions performed by marketing professionals. Students apply knowledge and skills learned in previous marketing courses to management-oriented challenges. They study levels of management, their functions and duties, and styles of management. Involvement in a marketing research project is a recommended activity. Leadership development will be provided through DECA. Prerequisite: Retail Marketing, Sports Marketing or Fashion Marketing
- 1 Credit (Grade level 12)**
- 707** ***Advanced Marketing Coop I*** – **1 Credit (Grade level 12)**
- 708** ***Advanced Marketing Coop II*** - **1 Credit (Grade level 12)**