

ART

36401

ART I-Semester 1

Pre-requisites: None

FEE: \$12.50
(Grades 9-12)

This course consists of drawing, theory of form, color, composition and perspective. The student works with pencil, pen, charcoal, pastels and watercolors. Selected periods of art history are studied. (500731)

36401

ART I-Semester 2

Pre-requisites: Art I-Semester 1

FEE: \$12.50
(Grades 9-12)

The student learns sculpture, poster making, advertising design and simple print making. Techniques of ceramics are shown. Selected periods of art history are studied. Students work with pen and ink, mixed media, tempera and acrylic paints. (500731)

36501

ART II-Semester 1

Pre-requisites: Art I

FEE: \$12.50
(Grades 10-12)

The student works in a variety of painting techniques. The tools of painting, design, use of value and color are demonstrated. This semester course deals with drawing, painting and study of the history of art. (500732)

36501

ART II-Semester 2

Pre-requisites: Art II-Semester 1

FEE: \$12.50
(Grades 10-12)

Three-dimensional work such as sculpture and ceramics constitutes approximately one half of the semester. Various periods of art history are studied. (500732)

36601

ART III-Semester 1

Pre-requisites: Art II

FEE: \$12.50
(Grades 11-12)

The student develops his individual style in painting, mixed media and other drawing media. Advanced techniques are explored, and each student designs, develops and creates original artworks. The media of acrylic, watercolor and pastel are used. The student prepares a portfolio which includes graphic art, painting, calligraphy and advertising art. Instruction in Computer Animation is included. (500733)

36601

ART III-Semester 2

Pre-requisites: Art III-Semester 1

FEE: \$12.50
(Grades 11-12)

Advanced techniques in clay are explored with both free form and ceramics. Other three-dimensional forms include mobiles, sculptures from found materials and various casting methods. Research is done on specific artists, both past and contemporary. Instruction in Computer Animation is included. (500733)

36701

ART IV-Semester 1

Pre-requisites: Art III

FEE: \$12.50
(Grade 12)

The student continues to develop his own style in painting, mixed media and other drawing media. Emphasis is given to the development of a portfolio. Instruction in Computer Animation is included. (500734)

36701

ART IV-Semester 2

Pre-requisites: Art IV-Semester 1

FEE: \$12.50
(Grade 12)

The student will begin an independent study and will work on individual projects agreed upon by the student and the teacher. The student will spend time in the area(s) of art in which he/she is most proficient. In-class work will be enhanced by studying artists who specialize in the same media. Instruction in Computer Animation is included. (500734)

36703

STUDIO ART-Semester 1

(Two-Dimensional Art)

Pre-requisites: Art III

FEE: \$12.50
(Grades 11-12)

This course is designed for the serious art student who may be considering the visual arts as a college major or career choice. Therefore, enrollment in this course is very limited. (500708)

36703

STUDIO ART-Semester 2

(Two-Dimensional Art)

Pre-requisites: Art III

FEE: \$12.50
(Grades 11-12)

A continuation from Studio Art, Semester 1, a student in this course concentrates on personally selected visual art media and expands his/her portfolio. (500708)

36509

ART LAB ASSISTANT

No Credit

FEE: NONE

Pre-requisites: Art I; Approval by Instructor

(Grades 10-12)

A small group of specially selected students will aid the art department in gathering materials, setting up laboratories, filing and inventorying supplies, and mounting exhibits. (990150)

CAREER CLUSTER AND PATHWAY

Alabama's Career and Technical Education program is representative of the national career and technical education model. Career Clusters in Alabama's curriculum include courses that identify academic and technical knowledge and skills needed for students to pursue a wide range of career opportunities. Courses are designed to provide school-based learning with career-related experiences. Each career cluster is composed of one or more pathways that students may pursue within a cluster. A foundation course is aligned with each career cluster to provide an overview of career opportunities within the cluster.

AGRISCIENCE EDUCATION

Career Cluster: Agriculture, Food & Natural Resources

Pathway: Power, Structure and Technical Systems

Program: Agriconstruction

Agriscience provides students in Grade 9 with a general overview of the Agriculture, Food and Natural Resources Cluster. Students have career options for five different pathways in Agriscience: Power, Structure, and Technical Systems; Environmental and Natural Resources Systems; Animal Systems; Plant Systems; and Agribusiness Systems. Students are involved in classroom and laboratory activities in each of the five pathway areas. This course includes a broad range of topics such as: career opportunities, safety, technology applications, agribusiness leadership, environmental science, soil science, plant science, forestry, animal science, aquaculture, wildlife science, pest management, woodworking, metalworking, small engines, electrical wiring, and plumbing.

All students enrolled in Agriscience are encouraged to join their Career Tech Student Organization, FFA. Activities in FFA include: Land Career Development Event, Livestock Career Development Event, Tractor Driving, Creed Speaking, Agricultural Mechanics, and many other competitions. All of these events enable students to build leadership skills and career options.

Agriscience Laboratory Activities include: Woodworking, Metalworking, Small Engines, Plumbing, and Electrical Wiring. This course serves as a foundation for the Construction Program taught at the high school.

47403

AGRISCIENCE-Semester 1

Pre-requisite: None

FEE: \$10.00

(Grade 9)

This course is a foundation for the Agriculture, Food, and Natural Resources Career Clusters. Students enrolled in this course receive hands-on activities in the areas of woodworking, metalworking, small engines, electrical wiring and plumbing, as well as other areas such as plant and animal science. Each individual student will construct projects within the course which will be his/hers to keep upon completion. (010106)

47403

AGRISCIENCE-Semester 2

Pre-requisite: Agriscience-Semester 1

FEE: \$10.00

(Grade 9)

Continuing from Agriscience Semester 1, students are instructed in the use of more hands-on equipment as they practice the skills they acquired in woodworking and metalworking. Completion of this course will prepare students for a career in Agriculture, Food, and Natural Resources. This course will also prepare students for other Career Technical courses in manufacturing and construction. (010106)

CARPENTRY AND CONSTRUCTION TOOLS UTILIZED IN THE PROGRAM:

Table Saw, Sliding Compound Miter Saw, Drill Press, Band Saw, Scroll Saw, Panel Saw, Planer, Jointer, Shaper, Combination Belt/Disc Sander, Oscillating Spindle Sander, Welding Machine, variety of Dewalt Hand Power Tools, and a large variety of Hand Tools. Students will also use Builders' Levels, Transits, and Laser leveling Devices.

AUTOMOTIVE SERVICE TECHNOLOGY

Career Cluster: Transportation, Distribution & Logistics
Pathway: Facilities and Mobile Equipment Maintenance
Program: Automotive Services

Automotive Service Technology provides students with classroom and laboratory experiences utilizing current and emerging technologies in automotive service theory and repair. Students acquire hands-on experiences in learning to use computer control systems and other electronic diagnostic and testing equipment. Learning to use technical manuals and make decisions to solve problems is emphasized. This program incorporates all personal and environmental safety practices associated with clothing; eye protection; hand tools; power equipment and proper ventilation. Safety practices involving the handling, storage, and disposal of chemicals/materials in accordance with local, state, and federal safety and environmental regulations are taught.

This program follows the guidelines and standards set by the Automotive Service Excellence (A.S.E.) / National Automotive Technicians Foundation, Inc. (N.A.T.E.F.).

Students desiring to make Automotive Servicing their career choice will have an opportunity to become involved with the AYES Program (Automotive Youth Educational Systems). AYES is a partnership between new car dealerships and education that provides a working sponsorship opportunity for qualifying students. Students also have the opportunity to participate in Skills-USA, the Career Tech student organization.

41401

Automotive Engine Repair-Semester 1

Pre-requisites: None

FEE: \$10.00

(Grade 9)

This is an introductory class for students desiring hands-on shop experience. It is for students who have limited knowledge about automobiles, tools, and theory. Students study various aspects of automotive technology, including preventive maintenance, becoming familiar with parts of the engine, oil changing, tire rotation and balancing, and engine tune-up. Students have the opportunity to participate in SkillsUSA-VICA student organization. Students are required to purchase safety glasses. (471003)

41401

Automotive Engine Repair-Semester 2

Pre-requisites: Auto Engine Repair-Semester 1

FEE: \$10.00

(Grade 9)

This course is a continuation of the first semester. Upon completion of this course, students should be able to decide if a career in the automotive service profession is for him/her. The basic knowledge and skills acquired should enable a person to perform

routine maintenance on most vehicles. Students are required to purchase safety glasses. (471003)

41502

Automotive Electrical & Electronic System 1-Semester 1

FEE: \$10.00

Pre-requisites: None

(Grades 10-12)

This one-credit course provides students with classroom and laboratory instruction regarding electrical and electronic system operations, diagnosis and repairs. Emphasis is placed on system operations, circuit diagnosis, wiring diagrams and electrical usage. Students will participate in hands-on projects that provide opportunities to become skilled in electronic system operations. (471006)

41502

Automotive Electrical & Electronic System 1-Semester 2

FEE: \$10.00

Pre-requisites: Automotive Electrical & Electronic System-Semester 1 (Grades 10-12)

Project-based learning continues in this course as students make application of knowledge and theory learned about electronic systems. This course incorporates all personal and environmental safety practices associated with clothing, eye protection, hand tools, power equipment, proper ventilation, and the handling and proper storage and disposal of chemicals and materials. Local, state and federal safety and environmental regulations are followed. (471006)

41503

Automotive Suspension and Steering-Semester 1

FEE: \$10.00

Pre-requisites: NONE

(Grades 10-12)

This is a one-credit course that is designed to provide students with a working knowledge of brake- assist assemblies, anti-lock systems, suspension diagnosis, alignment procedures, and wheel balancing. Upon successful completion of this course, students are able to repair brake, suspension, and steering systems. Hands-on work experiences and SkillsUSA-VICA leadership activities provide many opportunities to enhance classroom instruction and career development. (471009)

41503

Automotive Suspension and Steering-Semester 2

FEE: \$10.00

Pre-requisites: Automotive II / Suspension and Steering-Semester 1 (Grades 10-12)

Project-based learning continues in this one-hour course. Students will demonstrate the ability to properly diagnose steering system problems, perform wheel alignment checks or adjustments, and diagnose / repair wheels and tires. (471009)

41505

Automotive Brakes 1-Semester 1

Pre-requisites: None

FEE: \$10.00

(Grade 10-12)

Brake system operations, including disc/drum brake diagnoses and repairs, are the focus of this one-credit course. Students are taught to properly remove, clean, inspect, and install disc brake components. Students will demonstrate proper testing techniques for diagnosing problems involving anti-lock brake system components. Hands-on work experiences and SkillsUSA-VICA leadership activities provide many opportunities to enhance classroom instruction and career development. (471008)

41505

Automotive Brakes 1-Semester 2

Pre-requisites: Auto Brakes 1-Semester 1

FEE: \$10.00

(Grades 10-12)

Experiences in repairing brake systems continue in the second semester of this course. Students will analyze brake problems and apply proper repair procedures. Upon successful completion of this course, students are able to repair accessory and brake systems. (471008)

41507

Automotive Engine Performance 1 Theory -Semester 1

Pre-requisites: Successful completion of one credit in Auto Service Technology

FEE: \$10.00

(Grades 10-12)

This one-credit theory course provides students with knowledge regarding general engine diagnosis, computerized engine controls, ignition systems, fuel systems, and emission control systems. Strong emphasis is placed on learning theory related to diagnosing and problem solving to make recommendations for repairing engine performance-related systems. Hands-on work experiences and SkillsUSA-VICA leadership activities provide many opportunities to enhance classroom instruction and leadership skills. (471001)

41507

Automotive Engine Performance 1 Theory-Semester 2

Pre-requisites: Auto Engine Performance 1 Semester 1

FEE: \$10.00

(Grades 10-12)

Advanced theory on system and engine components continues as students demonstrate knowledge in interpreting engine problems. Students learn what is involved in following procedures for a proper diagnosis, interpretation, and verification of engine performance-related problems. (471001)

41508

Automotive Engine Performance II Lab-Semester 1

FEE: \$10.00

Pre-requisites: Current enrollment in Auto Engine Performance 1-Theory
(Grades 10-12)

Advanced students gain in-depth information and hands-on skills regarding general engine diagnosis, computerized engine controls, ignition systems, fuel systems, and emission control systems. Students utilize engine diagnostic equipment for solving engine malfunctions and make ignition system diagnosis and repairs. Skills taught include properly removing, inspecting, testing, installing, and adjusting components of engine-related service. Hands-on work experiences and SkillsUSA-VICA leadership activities provide many opportunities to enhance classroom instruction and career development. (471002)

41508

Automotive Engine Performance II Lab-Semester 2

FEE: \$10.00

Pre-requisites: Auto Engine Performance II Lab-Semester 1 and current enrollment in Auto Engine Performance Theory I
(Grades 10-12)

This advanced lab is a continuation of utilizing skills to acquire a working knowledge of diagnosis and repair of computerized engine control systems. Upon completion, students should be able to properly use specialized equipment to locate and diagnose engine problems and recommend repair procedures. (471002)

41509

Automotive Service Technology Lab Assistant

No Credit

FEE: None

Pre-requisites: Approval by Instructor
(Grades 10-12)

A small group of specially selected students will aid the Automotive Service Technology Department in gathering materials, setting up laboratories, filing and inventorying supplies, and performing other duties as directed by the teacher. (990150)

BUSINESS EDUCATION

Career Cluster: Business Management & Administration

Pathway: Business Information Technology

Program: Business Information Technology

The Business Education program provides students with basic preparation for a dynamic and challenging position in today's competitive marketplace. As students gain knowledge and professional experiences, they develop skills essential for success. Students experience challenging activities and acquire critical-thinking skills as they enhance employability skills. The curriculum provides a program that is student-centered and project-based with flexibility regarding course selection.

Students master basic skills in the areas of word processing, database management, and spreadsheets. Students explore marketing concepts, national and global economics, entrepreneurship concepts and human relations. Courses include instruction in desktop publishing, web publishing, and digital graphics. A major emphasis is placed on guiding students through real-world experiences to ease the school-to-career transition.

Participation in the student organization, Future Business Leaders of America (FBLA), enables students the opportunities to develop leadership, build self-esteem, and practice community service. The activities are member-planned, member-directed, and member-centered.

31401

BUSINESS TECHNOLOGY APPLICATIONS-Semester 1

FEE: \$15.00

Pre-requisite: None

(Grades 9–12)

This course is designed to help students master basic skills in the areas of word processing, database management, spreadsheet, presentations, Internet use, and E-mail. Students are also offered opportunities to gather information about careers in technology. Simulations and projects promoting teamwork and leadership skills offer further opportunities for application of knowledge and skills.

SimNet interactive software is used so students can master the skills in Microsoft Office applications and computer concepts. (540203)

31401

BUSINESS TECHNOLOGY APPLICATIONS-Semester 2

FEE: \$15.00

Pre-requisite: Business Technology Applications – Semester 1

(Grades 9-12)

Building on the skills introduced the first semester, the student develops proficiency in word processing, database management, spreadsheets, Internet use and E-mail effectiveness.

Students continue to use SimNet XPert to acquire skills through a combination of text, graphics, and interactivity. Animation is used to show how the skill is used while listening to an audio narration describing the steps or process. The student has opportunities to practice and become proficient using the wide range of content modules. Successful completion of this course meets the requirement for computer literacy. (540203)

31507

ADVANCED BUSINESS TECHNOLOGY APPLICATIONS – Semester 1

FEE: \$15.00

Pre-requisite: Business Technology Applications or Computer Technology

(Grades 10-12)

This is a one-credit course that provides students with project-based applications of concepts learned in Business Technology Applications. Personal computing and business skills are integrated throughout the course as students use a variety of software applications. Students learn how to produce and prepare documents for publication and to select appropriate software for generating information. (540601)

31507

ADVANCED BUSINESS TECHNOLOGY APPLICATIONS Semester 2

FEE \$15.00

Pre-requisite: Advanced Business Technology Applications Semester 1

(Grades 10-12)

The second semester of this course emphasizes guiding students through real-world experiences to aid in the school-to-career transition. Students will acquire skills in word processing applications, spreadsheet applications, database applications, the creation of a multimedia resume, internet research and email. ((540601)

31405

BUSINESS FINANCE

½ Unit

FEE: \$10.00

Pre-requisite: None

(Grades 9-12)

This course provides students with opportunities to develop skills for solving real-world problems. Areas of study include personal financial planning, financial services, budgeting, investments, insurance protection, and credit management. Students learn to apply decision making skills and become responsible consumers. (540402)

31407

LAW IN SOCIETY

½ Unit

FEE: \$10.00

Pre-requisite: None

(Grades 9-12)

Law in Society is designed to acquaint students with the basic legal principles common to businesses and personal activities. Topics include personal concepts to assist students when evaluating contracts, wills and trusts, starting a business, and hiring employees. Classifications of law are studied which include: criminal law, consumer law, contract law and civil law. (540301)

31505

MULTIMEDIA DESIGN – Semester 1

FEE: \$15.00

Pre-requisite: Business Technology Essentials or Business Technology Applications I

(Grades 10-12)

Designed to provide students with skills involving presentations, desktop publishing, web publishing, and digital graphics, this course involves the most current use of technology in the business world. Students use various hardware peripherals as well as the Internet for integrating skills to create a variety of publications. (463001)

31505

MULTIMEDIA DESIGN-Semester 2

FEE: \$15.00

Pre-requisite: Multimedia Design – Semester 1

(Grades 10-12)

As students continue this course from the first semester, they develop greater skills in special uses of technology such as desktop and web publishing, digital graphics, etc. Upon successful completion of both semesters, students are able to pursue further study in the professional interactive multimedia design. (463001)

31404

COMPUTER TECHNOLOGY

½ Unit

FEE: \$10.00

(Computer Management and Support)

Pre-requisite: None

(Grades 9-12)

This course is designed to help students master basic skills in the areas of database management, spreadsheet, presentation, internet, and e-mail. Students are also offered opportunities to identify ethical issues pertaining to information systems and to gather information about careers in technology. Communication and critical thinking are reinforced through the use of software applications. (465457)

CONSTRUCTION TECHNOLOGY

Career Cluster: Architecture and Construction Technology

Pathway: Construction

Program: Welding

The Architecture and Construction Technology Program consists of courses designed to provide the knowledge and skills needed to introduce students to careers in engineering, welding, robotics and building construction. The courses include significant technical depth and engineering concepts and terminology. Students choosing a career in this program of study enjoy challenging curricula and have the ability to pay close attention to detail in daily work tasks. The program is designed to fulfill the requirements of the American Welding Society (AWS) Certification. Topics of study include metal welding, brazing, cutting operations, blueprint reading and electricity. Students gain knowledge and skills through an active, structured and stimulating environment coordinated with simulated workplace learning experiences.

46417

FOUNDATIONS OF ENGINEERING – Semester 1

FEE: \$15.00

Pre-requisites: None

(Grades 9-12)

The Foundations of Engineering is an activity-based, competency-driven program designed to provide a broad base of experience in modern construction technologies and engineering. Through the use of applied mathematics and science concepts, a hands-on and flexible approach prepares students to take their place in the high-tech, highly competitive world of construction and engineering. The course systemically covers a wide range of mathematics and science concepts used in manufacturing, allowing students to build competencies and critical skills necessary in industrial careers. The course uses industrial-grade equipment and simulation control software in the following areas: Electrical Systems, Computer-aided Engraving and Milling, Robotics, Spectra Cad, MasterCam, and Flexible Manufacturing Systems. (220301)

46417

FOUNDATIONS OF ENGINEERING - Semester 2

FEE: \$15.00

Pre-requisites: Foundations of Engineering I – Semester 1

(Grades 9-12)

A continuation of the hands-on and flexible approach to providing experiences in engineering and modern construction technologies is the hallmark of this semester. Through this project-based course, students systematically apply mathematics and science concepts to explore manufacturing topics, allowing them to build competencies and skills. (220301)

46517

ENGINEERING APPLICATIONS – Semester 1

FEE: \$15.00

Pre-requisites: Foundations of Engineering

(Grades 10-12)

This course is a continuation of Principles of Engineering I. The student continues to develop skills using a hands-on approach to modern construction. This course involves more hands-on equipment application. These applications will be used in direct relation to engineering design and construction. (220302)

46517

ENGINEERING APPLICATIONS – Semester 2

FEE: \$15.00

Pre-requisites: Engineering Applications – Semester 1

(Grades 10-12)

This course is a continuation of Engineering Applications – Semester 1. The student continues to develop skills using industrial grade equipment and simulation control software. Examples of engineering problems are introduced such as pneumatics, hydraulics, electrical systems, and manufacturing systems. (220302)

47401

INTRODUCTION TO WELDING – Semester 1

FEE: \$15.00

Pre-requisites: None

(Grades 9-12)

This course fulfills the requirements for an entry-level welder by the American Welding Society (AWS). The student has the opportunity to use equipment in oxy-acetylene cutting, shielded metal arc welding and metal-inert gas welding. The course includes welding safety, blueprint reading, safety with explosive gases, and welding projects. (431601)

47401

INTRODUCTION TO WELDING – Semester 2

FEE: \$15.00

Pre-requisites: Introduction to Welding - Semester 1

(Grades 9-12)

This course is a continuation of Welding Technology – Semester 1. Students apply the theory of welding technology to specific job tasks. All the required areas for entry-level welding are studied and practiced in preparation for taking the American Welding Society's Certification test. The course is ideal for those students planning a career in engineering, construction, and/or welding and pipefitting. (431601)

47501

WELDING I – Semester 1
(Applied Welding I with Plasma Arc Cutting)

FEE: \$15.00

Pre-requisites: Introduction to Welding

(Grades 10-12)

This course is a continuation of Introduction to Welding. Students with an occupational objective in manufacturing/welding desiring AWS (American Welding Society) Certification need this class to accumulate the required knowledge and skills to pass the AWS certification test. Students continue to apply the theory of welding

technology to specific job tasks. All the required areas for entry-level welding are studied and practiced, with emphasis on those specific requirements for the AWS exam. This course is ideal for those students planning a career in engineering, construction, and/or welding and pipefitting. (431602)

47501

WELDING I – Semester 2

FEE: \$15.00

(Applied Welding I with Plasma Arc Cutting, Semester 2)

Pre-requisites: Welding I-Semester 1

(Grades 10-12)

This course is a continuation of Welding I – Semester 1. The student continues to develop skills using oxy-acetylene cutting, shielded metal arc welding and metal inert gas welding. The student develops the skills needed to successfully complete the American Welding Society certification exam. This course is ideal for those students planning a career in engineering, construction, and/or welding and pipefitting. (431602)

47601

WELDING II – Semester 1

FEE: \$15.00

(Applied Welding II with Carbon Arc Cutting)

Pre-requisites: Welding I – Semester 2

(Grades 11-12)

Students taking this one-credit course are provided opportunities to plan, execute, and present results of individual or group projects related to welding. Emphasis is placed on safety, welding terminology, and the proper set-up and use of tungsten inert gas. Upon successful completion of this course, students are able to interpret welding symbols and blueprints as they apply to welding and fabrication. (431603)

47601

WELDING II – Semester 2

FEE: \$15.00

(Applied Welding II with Carbon Arc Cutting, Semester 2)

Pre-requisites: Welding II - Semester I

(Grades 11-12)

This course is a continuation of Welding II – Semester I. Students continue to develop skills and competencies in the operation of welding equipment. Project-based learning is the focus of this advanced course. (431603)

47523

CONSTRUCTION I – Semester 1 (Fall) 1 Unit

FEE: \$30.00

(Architecture, Construction and Manufacturing)

Pre-requisites: None

(Grades 10-12)

This is a **two-hour, one-credit** course that introduces students to core knowledge and skills in the areas of design, preconstruction, construction, maintenance, operations

and installation and repair which are foundational courses related to careers in the architecture and construction and manufacturing industries. (430901)

47525

CONSTRUCTION II – Semester 2 (Spring) 1 Unit

FEE: \$30.00

(Senior Career Pathway Project)

Pre-requisites: Construction I

(Grades11-12)

This is a **two-hour, one-credit** course designed for students to engage in a project related to design and involving an area of interest in construction skills. Students engage in in-depth exploration of the area; employ problem-solving, decision making, and independent learning skills; and present a culminating project at the end of the semester. (700403)

47509

CONSTRUCTION LAB ASSISTANT

No Credit

FEE: None

Pre-requisites: Approval by Instructor

(Grades 10-12)

A small group of specially selected students aid the Manufacturing Department in gathering materials, setting up laboratories, filing and inventorying supplies, and performing other duties as directed by the teacher. (990150)

CONSTRUCTION/WELDING EQUIPMENT UTILIZED IN THIS PROGRAM
Shielded Metal Arc Welder, Tungsten Inert Gas Welder, Metal Inert Gas Welder, Plasma Arc Cutting Machine, 65 Ton Ironworker, Sheet metal Shear, Sheet metal Box and Pan Brake, Drill Press, Metal Lathe, Scroll Saws, Compound Miter Saw, Electric Sanders, Skill Saws, Band Saw, Wood Planer, Router, Shaper, Table Saw, Square-wave TIG Machine, Invertec Stick Welding Machine, and assorted hand tools.

COOPERATIVE EDUCATION

The Cooperative Education program provides opportunities for students to work and earn money while attending high school. This program assists students in making smart choices about a career by helping them identify their abilities, interests and aptitudes. Students learn valuable skills that enable them to be successful while participating in work-site experiences in the Florence area. The goal of this program is for the student to gain firsthand experience and information for making career choices.

31403

WORKFORCE ESSENTIALS

1 Unit

FEE: \$15.00

Pre-requisites: None

(Grades 10-12)

This course is required for participation in the CO-OP Work-Based Experience Seminar.

Students are provided opportunities to research careers and compare the relationship between educational achievement and career planning. A major emphasis is placed on the effect of work on lifestyles and on personal responsibility for making educational and occupational choices.

Course content includes researching and demonstrating skills and behaviors that involve: having successful job interviews, preparing a resume, completing job applications; describing appropriate dress and grooming for the workplace, communicating effectively, using business etiquette, identifying ethical behavior in the workplace, describing legal issues affecting business, identifying leadership styles and skills, promoting teamwork, and utilizing technology in the workplace.

Students acquire knowledge and skills that will prepare them to be competitive in the workplace. Instruction is computer-based using the Key Train web-based curriculum. Upon completion, students are provided an opportunity to participate in assessments involving three areas recognized by business and industries. Students earn credentialing by WorkKeys Assessments which identifies the individual student's levels of competencies in specific areas. The certificates awarded are used by many businesses and industries for hiring purposes. (700306)

34613, 34623, 34633

WORK-BASED EXPERIENCE SEMINAR

Up to 3 Units

FEE: None

(Grades 11-12; or age eligible)

Pre-requisite: Workforce Essentials (completed or in progress)
At least 16 years old
Means of transportation to job site
Interview/Application with CO-OP Coordinator

Students are permitted to work off-campus and receive wages as well as one, two, or three units of credit. They must be able to acquire a minimum of 270 clock hours in a work-related setting each semester for each credit earned. They are excused from school each afternoon to report to their workplace.

Each student is required to participate in a class that meets once per week. Course content includes: development of a career educational plan and portfolio, resume building, a review work evaluations, job and/or college applications, references, letters of recommendation, wage and hour reports, and workplace issues.

Application of acquired knowledge is demonstrated as students learn to apply ethics and social responsibility in the workplace and demonstrate proficiency in managing personal finances.

Students participate in a work-based learning experience related to their career objective. (**Computer numbers for Co-op Work-Based Experience Seminar: 34613 – 1 hour; 34623 – 2 hours; 34633 – 3 hours**) (All 700601)

COSMETOLOGY

Career Cluster: Human Services
Pathway: Personal Care Services
Program: Cosmetology

Students enrolled in the Cosmetology program follow the established curriculum by the State Board of Cosmetology and State Department of Education. Students learn through classroom instruction and then apply their knowledge to hands-on experience.

Instruction is designed to prepare students for the Alabama licensing examinations. Topics of study include sanitation, safety, hairstyling, nail care and skin care. Courses include science as it relates to hair and skin. The hours and credits successfully completed by students in these classes are state accredited and can be transferred to postsecondary and private schools. To be eligible for state credit, students must be at least 16 years of age and have completed the 10th grade. In addition to the fee indicated, students are required to purchase supplies or materials for various specialized courses. Students enrolled in Cosmetology classes are encouraged to participate in SkillsUSA-VICA.

Cosmetology lab involves students working with various chemicals that may be a concern for students having allergies or a sensitivity to odors and chemicals.

42413

INTRODUCTION TO COSMETOLOGY – Semester 1

Pre-requisites: None

FEE: \$20.00

(Grades 9 - 11)

One class period of no more than 20 students is designated for ninth graders only.

Introduction to Cosmetology is a course that helps students develop basic salon techniques in the study of personal and professional image/conduct, sanitation, hairstyling, and nail care. Students perform practical tasks including sanitation, shampooing, various hairstyling techniques, and basic nail care. Theory related to the various cosmetology tasks is included in this course. (441301)

42413

INTRODUCTION TO COSMETOLOGY – Semester 2

Pre-requisites: Introduction to Cosmetology – Semester 1

FEE: \$20.00

(Grades 9 - 11)

This course is a continuation of Cosmetology – semester 1. Entry-level skills and related theory are taught in shampooing, hairstyling, and manicuring. Special emphasis is placed on employability skills, sanitation, and safety. (441301)

42515

INTRODUCTION TO NAIL CARE AND APPLICATIONS– Semester 1

FEE: \$20.00

Pre-requisite: None

(Grades 9-11)

One class period of no more than 20 students is designated for grade 9 during 4th period.

Total nail care is the focus of this course. Students are taught skills in basic manicuring, pedicuring, artificial nail care, and hand treatments. Upon successful completion of this course, students are able to demonstrate professional conduct, identify nail disorders/diseases, and perform safety and sanitation on all nail care services. (441307)

42515

INTRODUCTION TO NAIL CARE AND APPLICATIONS – Semester 2

FEE: \$20.00

Pre-requisite: Introduction to Nail Care and Applications – Semester 1 (Grades 9-11)

This course is a continuation of the first semester course. Students continue to become competent in nail care services including manicures, pedicures, and artificial nail care. Information on product knowledge and chemicals used in proper sanitation and safety procedures is included. After completion of this course, students will have a broad knowledge of requirements for a career in nail technology. (441307)

42617

NAIL ART AND APPLICATIONS– Semester 1

FEE: \$20.00

Pre-requisite: Introduction to Nail Care and Applications

(Grades 10-12)

This one-credit course concentrates on skills involving advanced nail techniques. Nail structure, diseases, and growth are studied. Students learn and practice procedures for nail sculpturing and nail art. The course provides students with knowledge and practice in the different systems of application of artificial nails. Upon successful completion of this course, students are able to identify a variety of types of sculptured nails and perform procedures for nail sculpturing and nail art. (441308)

42617

NAIL ART AND APPLICATIONS– Semester 2

FEE: \$20.00

Pre-requisite: Nail Art and Applications– Semester 1

(Grades 10-12)

The second semester of Nail Art and Applications is a continuation of practicing advanced techniques in the application of artificial nails. Students continue to perform procedures in pedicures and manicures. This course provides students with a study of the various products used in nail art and nail care. Upon successful completion of this course, students are able to perform a variety of types of artificial nail applications. Safety and sanitation procedures are taught on all nail services. (441308)

42517

SALON PRACTICES AND MANAGEMENT – Semester 1

FEE: \$20.00

Pre-requisite: Introduction to Cosmetology

(Grades 10-12)

This advanced course helps students develop entry-level management skills for the cosmetology industry. Students practice all phases of cosmetology in a salon setting. Topics of study include professional ethics, communication skills, job-seeking and management skills, and the application of technology used in salons. Upon successful completion of this course, students are able to demonstrate skills in hairstyling, chemical services, nail services, and haircutting. (441306)

42517

SALON PRACTICES AND MANAGEMENT – Semester 2

FEE: \$20.00

Pre-requisites: Salon Practices and Management Semester 1

(Grades 10-12)

This course is a continuation of semester 1. Students apply skills in a lab environment simulating a salon. Valuable knowledge and skills help the student prepare for a career in the cosmetology industry. Course credit transfers to a community college. (441306)

42513

INTRODUCTION TO SPA TECHNIQUES-Semester 1

FEE: \$20.00

Pre-requisite: Introduction to Cosmetology or successful completion of one unit in cosmetology

(Grades 10-12)

This advanced course emphasizes skills and theory related to skin care treatments. Course content includes the study of anatomy and physiology, skin disorders, and sanitation and safety. Students will learn to perform skin analysis, proper facial cleansing, facial massage, and cosmetic application. (441304)

42513

INTRODUCTION TO SPA TECHNIQUES-Semester 2

FEE: \$20.00

Pre-requisite: Introduction to Spa Techniques-Semester 1

(Grades 10-12)

Students will learn to give skin care treatments using facial machines. Instruction in the use of facial equipment such as the Magnifying Lamp, Wood Lamp, Steamer, Galvanic Current, Vacuum, and High Frequency will provide valuable hands-on opportunities for students. Advanced skin care classes using the Microdermabrasion machine are taught during this semester. Related theory is included. Safety and sanitation are emphasized. (441304)

42509

COSMETOLOGY LAB ASSISTANT

Pre-requisite: Approval by Instructor

No Credit

FEE: None
(Grades 10-12)

A small group of specially selected students will aid the Cosmetology Department in gathering materials, setting up laboratories, filing and inventorying supplies, and performing other duties as directed by the teacher. (990150)

COSMETOLOGY EQUIPMENT UTILIZED IN THE PROGRAM:

The Cosmetology Lab is set up as near as possible like a modern-day beauty industry salon with professional work stations, dryers, shampoo stations and professional equipment such as blow dryers and curling irons. Manicure tables, nail centers and up-to-date facial equipment are utilized. Theory classes use a variety of visual aids such as detailed videos on basic procedures and laser disc study in haircutting and science.

COMPUTER ELECTRONICS

Career Cluster: Information Technology
Pathway: Information Support and Services
Program: Computer Electronics

Students will discover exciting career opportunities in the high-demand profession known as Information Technology. The Computer Electronics courses include significant technical depth as well as information regarding technology concepts and terminology. Information is also provided relative to opportunities for credentialing or certification. Students who select this career opportunity enjoy technical, challenging curricula and give attention to daily tasks. The SkillsUSA student organization is a co-curricular component of this cluster. Student organizations enhance classroom instruction, help develop leadership skills and provide opportunities for professional growth and service.

43411

INFORMATION TECHNOLOGY FUNDAMENTALS – Semester 1

FEE: \$10.00
(Grades 9-12)

Pre-requisites: None

In this course, students acquire knowledge and skills for information technology careers. Emphasis is placed on maintaining a safe working environment and on building interpersonal skills needed for working in the information technology environment. Students demonstrate appropriate knowledge and behaviors regarding legal responsibilities of information technology professionals. (460301)

43411

INFORMATION TECHNOLOGY FUNDAMENTALS – Semester 2

FEE: \$10.00
(Grades 9-12)

Pre-requisites: Information Technology Fundamentals – Semester 1

The second semester continues to focus on information technology and the vast career opportunities in this field. Students will develop a personal career plan to meet goals and objectives. (460301)

43516

INFORMATION TECHNOLOGY SUPPORT AND SERVICES – Semester 1

FEE: \$10.00
(Grades 9-12)

Pre-requisites: None

This one-credit course is designed to provide students with knowledge of computer hardware, operating systems and computer software applications. It provides students with additional skills necessary to effectively plan, develop and administer both a local area network (LAN) and a wide area network (WAN). Topics addressed in this course

include network operating systems, network architectures, network protocols and network security. (465401)

43516

INFORMATION TECHNOLOGY SUPPORT AND SERVICES – Semester 2

FEE: \$10.00

Pre-requisites: Information Technology Support and Services – Semester 1

(Grades 9-12)

This is a continuation of the first semester. Course content includes customer service, trouble shooting, system design and upgrading and career opportunities. Students will also acquire knowledge concerning the importance of information privacy in the workplace and the disposition of confidential information appropriately. (465401)

43517

COMPUTER MANAGEMENT AND SUPPORT– Semester 1

FEE: \$10.00

Pre-requisites: None

(Grades 9-12)

Computer Management and Support is a one-credit course that provides students with necessary skills to manage a stand-alone computer on a home network. Topics in this course include computer hardware, computer operating systems, network architecture, network protocols, career opportunities and network design and security. This course is great for students desiring to become more “tech savvy.” (465457)

43517

COMPUTER MANAGEMENT AND SUPPORT– Semester 2

FEE: \$10.00

Pre-requisites: Computer Management and Support– Semester 1

(Grades 9-12)

Students continue to acquire skills related to personal computer hardware components. Opportunities are provided to demonstrate procedures for installing a printer to a personal computer and to evaluate virus safeguards, firewalls and security. This course covers all the basics a student will need to know to become skilled in using a personal computer. (465457)

43512

DIRECT CURRENT–Semester 1

FEE: \$10.00

Pre-requisites: None

(Grades 9-12)

This course prepares students for careers in electricity or electronics. Students are provided with information regarding basic atomic theory, electronic components, quantities and measurements. Students learn in a hands-on lab environment which includes theory and experimentation. The course offers a high-tech introduction to the Electronics field utilizing computer-based Electronic Workbench software with studies in basic electricity theory, AC and DC theory, transistors and digital electronics. (431509)

43512**DIRECT CURRENT-Semester 2**

Pre-requisites: Direct Current - Semester 1

FEE: \$10.00

(Grades 9-12)

This is a continuation of Direct Current – Semester 1. It prepares students for careers in electricity or electronics. Topics include terminology and symbols; components of a basic circuit; electrical quantities and measurements; characteristics of resistors; Ohm’s Law in direct current circuits, circuit construction and troubleshooting. Upon successful completion of this course, students perform basic tasks related to the electrical industry. (431509)

43514**ALTERNATING CURRENT-Semester 1**

Pre-requisites: None

FEE: \$10.00

(Grades 9-12)

The Alternating Current course is designed to provide students with the fundamental knowledge and skills needed in the electrical industry. Emphasis is placed on job safety, terminology and symbols, magnetism, electrical quantities, and Ohm’s law in alternating current circuits and reactive circuits. A strong emphasis is placed on proper safety practices and industry ethics. (431510)

43514**ALTERNATING CURRENT-Semester 2**

Pre-requisites: Alternating Current - Semester 1

FEE: \$10.00

(Grades 9-12)

This is a continuation of the first semester of Alternating Current. It provides students with information regarding measurement, circuit analysis, reactive circuits, magnetism and power and test equipment. Upon successful completion of this course, students demonstrate understanding of reactive circuit construction and analysis and the use of test equipment. Students receive both classroom instruction and hands-on laboratory experiences. A strong emphasis is placed on proper safety practices and industry ethics. (431510)

43519**COMPUTER ELECTRONICS LAB ASSISTANT No Credit**

Pre-requisites: Approval by Instructor

FEE: None

(Grades 10-12)

A small group of specially selected students aid the Electronics Department in gathering materials, setting up laboratories, filing and inventorying supplies, and performing other duties as directed by the teacher. (990150)

ELECTRONICS EQUIPMENT UTILIZED IN THIS PROGRAM:

Digital multimeters, Analog multimeters, Oscilloscope, Transistor Analyzer, Capacitor/Inductor Analyzer, radio Frequency Generator/Modulator, Audio Frequency Generator, Computer Word Generator, Logic Analyzer, Logic Converter, Function Generator, Bode Plotter, AC/DC Power Supply and Computer Trainers.

FAMILY AND CONSUMER SCIENCE

Career Cluster: Human Services

Pathway: Family Studies and Community Services

Program: Family Studies and Community Services

The mission of Family and Consumer Sciences Education is to prepare students for family life, work, and careers in Family and Consumer Sciences Education. Opportunities are provided to develop the knowledge, skills, attitudes, and behaviors needed for becoming responsible citizens and leaders. Students use critical and creative thinking skills to address problems in family, community, and work environments. Students engage in project-based learning as they participate in school-based laboratory experiences.

A variety of courses is offered to meet individual needs of students. These courses provide students opportunities to explore relationships, learn about factors that affect health and nutritional needs, experience food preparation and dining etiquette, study financial management, housing decisions and interior design, and investigate parenting and family issues and career opportunities.

Family, Career and Community Leaders of America (FCCLA), an integral part of the curriculum, enhances leadership development skills and provides opportunities for community service.

33402

FAMILY WELLNESS

Pre-requisites: None

½ Unit

FEE: \$10.00

(Grade 9)

This course meets the ½ unit health requirement for graduation.

Family Wellness is a one-half credit course for students interested in health issues that impact individuals, families, and communities. Topics include: family health goals, promotion of good health, health risks, conflict resolution, communication skills needed in healthy relationships, mental health, grief, genetics, disease prevention, chronic illness, nutrition, substance abuse, home safety, emergency care, and first aid. FCCLA, an integral part of the curriculum, enhances leadership development skills and provides opportunities for community service. Dues for FCCLA are not included in class fee. CPR training is required for the Health credit. Fee includes CPR training using American Red Cross equipment. (443351)

33403

CONNECTIONS – Semester 1

Pre-requisites: None

FEE: \$10.00

(Grade 9)

Connections is a one-credit course focusing on practical problems related to nurturing human development throughout the life span. Course content includes: basic needs of

individuals; stages across the life span; dating and marriage; financial management; career planning; balancing work, family, and community services; technology; and career relating to the life span. FCCLA, an integral part of the curriculum, enhances leadership development skills and provides opportunities for community service. Topics include dating and issues that would impact a person's relationship. Dues for FCCLA are paid in the fall semester. (441001)

33403

CONNECTIONS – Semester 2

FEE: \$10.00

Pre-requisites: Connections Semester 1

(Grade 9)

Course content includes comparing the impact the different stages of life have on the individual and preparing for a high quality of life. Factors that should be considered throughout the various stages of the life cycle are identified. Students determine issues that are important in order to be a productive member of society and successfully progress into the next cycle. Students develop a career portfolio based on individual interests and plans. (441001)

33405

FOOD AND NUTRITION-Semester 1

FEE: \$40.00

Pre-requisites: None

(Grades 10-12)

Food and Nutrition is a one-credit course that enables students to assess the components and lifelong benefits of sound nutrition and fitness and to apply these principles to their everyday lives. Course content provides opportunities for students to explore factors that influence lifelong individual health and wellness. Topics of study include laws and legislation, nutrition needs across the lifespan, fad diets and food addictions, personal hygiene and health procedures, food preparation, recipe evaluation, food storage and safety. Students will demonstrate appropriate etiquette, manners, table settings, and service for various occasions. This course allows students the opportunity to study and experience national and international food choice, preparation, techniques, and presentation. Students will assess ways technology influences food production, choices and nutrition. Careers related to food production are explored. (440801)

33405

FOOD AND NUTRITION-Semester 2

FEE: \$40.00

Pre-requisites: Food and Nutrition Semester 1

(Grades 10-12)

The second semester of Food and Nutrition focuses on international food choice, preparation techniques and presentation. Students study food choices of various countries and prepare foods that reflect those particular cultural choices. Safety, sanitation and dining etiquette are studied, practiced and demonstrated in this course. (440801)

33406

FASHION - (Spring)

½ Unit

FEE: \$15.00

Pre-requisites: None

(Grade 9)

This course introduces students to the selection and care of clothing and accessories for individuals and families. Content provides opportunities for students to learn about factors that influence apparel choice, current fashion trends, proper care and maintenance of apparel, and laws regarding the apparel industry. Career options in the textile and apparel industries are explored. Course content also includes learning to make quick repairs on clothing, and ways to recycle and redesign clothes. Students will assess the impact of technology on the clothing industry. (441102)

33513

HOUSING-Semester 1

Pre-requisites: None

FEE: \$10.00

(Grade 9)

This project-based course is designed to introduce students to the selection and planning of living environments to meet the needs and wants of individuals and families across the life span. Styles of housing, energy issues, home safety and technology are included in this course. Course content provides opportunities for students to learn about housing options, architectural styles, home furnishings and accessories, home maintenance and landscape design. Students will enjoy participating in the interesting projects related to this informative course. (441201)

33513

HOUSING-Semester 2

Pre-requisites: Housing Semester 1

FEE: \$10.00

(Grade 9)

The second semester of this course involves evaluating a well-designed house. Students explore technological advances in home designs. Course content includes instruction in ways that consumers can “go green” in products used to maintain the home and the assessment of the impact of technology on organizing a home. Students will compare career options related to interior design and housing. (441201)

33518

CHILD DEVELOPMENT-Semester 1

Pre-requisites: None

FEE: \$10.00

(Grades 10-12)

Child Development is a one-credit course that helps students develop skills related to the physical, social, intellectual, and emotional development of children. Course content provides opportunities for exploring child development theories. Topics include stages of development, child health and safety, behavior management, child abuse, needs of exceptional children, childcare services, community resources, technology, and career opportunities for working with children. Observational experiences are a required component of this course. *Family, Career and Community*

Leaders of America (FCCLA), an integral part of the curriculum, enhances leadership development skills and provides opportunities for community service. Dues for FCCLA are not included in class fee. FEE INCLUDES REQUIRED LABORATORY EXPERIENCES. (440901)

33518

CHILD DEVELOPMENT-Semester 2

FEE: \$10.00

Pre-requisites: Child Development Semester 1

(Grades 10-12)

This semester is a continuation of first semester. Students continue to develop skills related to the developmental stages of children. Course content includes the study of adolescents and their need to develop their own personal identities, personal morals and values. Students will analyze ways technology impacts the growth and development of children. (440901)

33509

FAMILY AND CONSUMER SCIENCE ASSISTANT No Credit FEE: NONE

Pre-requisites: One unit of a Family and Consumer Science Course (Grades 11-12)

A select group of students are trained to assist in the Family and Consumer Science laboratories. These students are responsible for assisting both teachers and students in laboratory experiences, maintenance and up-keep of department, and special activities. Computer skills are essential. (990150)

CAREERS IN EDUCATION

Career Cluster: Education and Training

Pathway: Education and Training

Program: Teaching and Training

Students who enjoy school, are active in school and community groups, have strong academic and study skills and enjoy working with people should consider taking this project-based elective course. There is a high demand for talented teachers in Alabama classrooms: as corporate trainers; and as school counselors, coaches, and administrators. This course will help students prepare for choosing a solid career path in education and be better focused on their career ambitions.

If you enjoy meeting new people and sharing common interests, you will want to belong to the Career/Tech Student Organization (CTSO), Future Teachers of Alabama (FTA). This organization provides students with meaningful experiences related to the profession of education. Members learn what is involved in becoming an educator and the importance of participation in a working community. Students are engaged in activities that expand their skills in leadership, planning, problem-solving and communication.

31511

CAREERS IN EDUCATION-(Fall) (Education and Training)

1 Unit

FEE: \$20.00

Pre-requisites: None

(Grades 10-12)

This one-credit course meets for two hours a day. Students who enjoy learning and sharing what they learn have promising careers as educators. This one-credit course is designed for students who are interested in pursuing careers in education. Course content includes the teaching and learning process, analyzing learning styles and teaching methods, teaching techniques, effective communication skills, and characteristics of effective teachers. Education activities include learning to use technology as a tool for teaching, observing educational environments, and preparing educational materials. Students will gain valuable insight as they learn to evaluate processes and resources with the greatest impact on teaching and learning. (330206)

31512

TEACHING I – (Spring)

1 Unit

FEE: \$20.00

Pre-requisites: Careers in Education

(Grades 11-12)

This two-hour course includes content that helps students implement the teaching and learning processes. Major topics included are: funding sources, legal aspects, teaching and learning theories, curriculum development, positive learning environments, creative teaching techniques, appropriate learning activities and instructional resources. Students will analyze the field of education for career options. (330301)

31513

TEACHING II – (Fall 2011-2012)

1 Unit

FEE: \$20.00

Pre-requisites: Teaching I

(Grades 11-12)

This two-hour course provides students with advanced knowledge and skills used in the education field. The concepts of lesson planning and teaching for various grades, gauging the reading level of instructional materials, classroom management strategies, public relations, community partnerships and professional organizations are included in this course. Students will gain skills in the use of technology to organize and manage instructional programs. (330302)

31514

EDUCATION AND TRAINING INTERNSHIP – Semester 1 (Spring 2011-2012)

1 Unit

FEE: \$20.00

Pre-requisites: Teaching II

(Grade 12)

This two-hour, one-credit internship course is for students who are interested in pursuing careers in the education field. The internship allows students to spend time in a classroom or school setting on a regular basis. In this experience, students are assigned to a teacher within the school system who teaches the subject area of interest to the student intern; to a staff member in the appropriate professional support services; or to a principal or vice-principal. Students are provided the opportunity to make a personal assessment of their commitment to pursue an educational career. (330305)

Family, Career, and Community Leaders of America (FCCLA) offers students the opportunity to expand their leadership potential and develop skills for life, such as planning, goal setting, problem solving, decision making, and interpersonal communication.

HOSPITALITY AND TOURISM/CULINARY ARTS

Career Cluster: Hospitality and Tourism

Pathway: Restaurant and Food and Beverage Services

Program: Restaurant and Food and Beverage Services

Students who like travel or sports, and who enjoy meeting new people, can find plenty of exciting career options in the Hospitality and Tourism Career Cluster. Whether they are chefs, event planners, front desk clerks, tour guides or travel agents, professionals in this fast-growing field find work wherever and whenever people gather to play, relax, and enjoy food.

Three career pathways are available within the Hospitality and Tourism Career Cluster: Restaurants and Food/Beverage Services, Lodging, and Recreation/Travel and Tourism. Five courses offered within the career pathways include: **Hospitality and Tourism, Travel and Tourism, Culinary I, Culinary II and Culinary III**. The program consists of school-based laboratory courses that provide opportunities for students to discover how to prepare and present food to clients in various food service establishments as they also explore the hospitality industry. Topics of study include business practices, safety and sanitation, menus, food preparation, types and styles of service, food presentation, and professionalism.

Completion of prescribed courses allows opportunities for students to acquire **ServSafe Credentialing**, an accredited food safety training certification. Students may also pursue articulation of course credits with postsecondary colleges and dual enrollment opportunities.

Family, Career and Community Leaders of America (FCCLA), an integral part of the curriculum, enhances leadership development skills and provides opportunities for community service.

Culinary I and Culinary II are one-semester courses (with one unit of credit for each) that meet for a two-hour period.

33521

CULINARY ARTS I/HOSPITALITY - (Fall) **1 Unit** **FEE: \$50.00**
Pre-requisite: Application process with Culinary Arts teacher (Grades 10-12)

This one-credit course meets for two hours and is the pre-requisite to all Culinary Arts courses. It requires students to describe and demonstrate the methods used for safe handling of knives and garnishing tools. Lessons on knife skills and on safely using culinary equipment are included in the course content. Major topics include introduction to hospitality and tourism, recreation, travel and tourism, lodging, restaurants and food and beverage services. Safety and sanitation, customer relations and quality services are emphasized. Students develop culinary skills in the kitchen

lab through application of food preparation using commercial equipment. Course content also includes applying culinary calculations to recipes and assessing factors that affect food quality. (530301)

33523

CULINARY ARTS II – (Spring)

1 Unit

FEE: \$50.00

Pre-requisite: Culinary Arts I/Hospitality

(Grades 10-12)

Culinary II, a one-semester course, meets for two hours and teaches students advanced knowledge and skills used in the culinary arts and hospitality industries. Concepts addressed in the course include customer relations, cost and quality control, business management, laws and regulations, and proper storage techniques. Students learn about special dietary needs, international cuisines, and preparation of food products for all menu categories. Skills involving food presentation techniques, planning artistic food displays and preparing food items for special occasions such as banquet and catering services are included in this advanced course. Students will analyze the impact of technology on the culinary arts and classify careers related to culinary arts. (530302)

33611

CULINARY ARTS III – Semester 1- (Fall)

FEE: \$25.00

Pre-requisite: Culinary Arts II

(Grades 11-12)

This advanced one-hour course allows students the opportunities to refine skills in event planning and hospitality services. Students are involved in projects that require them to demonstrate culinary food production including banquet and catering services. Concepts addressed in the course include: customer needs and wants, laws and regulations, maintaining storage facilities, cost control, quality control, hiring and training employees, advertising strategies and guest and customer relations. (700403)

33611

CULINARY ARTS III – Semester 2 (Spring)

FEE: \$25.00

Pre-requisite: Culinary Arts II – Semester 1

(Grades 11-12)

The second semester of Culinary Arts III provides opportunities for students to learn about international cuisines and the preparation of food items for special occasions. Skills in mathematics, communication, creative thinking and entrepreneurship are reinforced in this course. Students will research career opportunities in lodging and hospitality industries. Completion of this course allows students the opportunity to acquire ServSafe Credentialing, an accredited food safety certification. (700403)

33407

TRAVEL AND TOURISM-Semester 1

Pre-requisite: None

FEE: \$10.00

(Grades 10-12)

This course emphasizes the economic impact of business and pleasure travel in the tourism industry. It provides opportunities for students to compare and analyze characteristics of recreation facilities, museums, parks and gardens, and travel destinations for various operating methods. Students learn how to plan trips through travel agencies for individuals as well as group tours abroad. Topics include developing marketing strategies, assessing admission procedures and safety and security issues. Course content includes opportunities to identify local and regional tourism activities. (530401)

33407

TRAVEL AND TOURISM-Semester 2

Pre-requisite: Travel and Tourism Semester 1

FEE: \$10.00

(Grades 10-12)

This is a continuation of the first semester. Students continue to learn about the marketing strategies of travel and tourism and the impact on an area's economy. Course content includes: analyzing the responsibilities of the travel counselor, identifying skills necessary to operate a travel and tourism business, collecting safety and security information relevant to a client's area of travel, and discussing legal issues of travel and tourism. (530401)

GRAPHIC ARTS TECHNOLOGY

Career Cluster: Arts, A/V Technology & Communication

Pathway: Printing Technology

Program: Graphic Arts

Graphic Arts Technology is a wide range of printing and publishing occupations since printing is expanding into a high-tech industry merging computer technology with production. Students enrolled in this program work toward PrintEd Certification. To receive national PrintEd Certification students must demonstrate proficiency in two or more of the nine specialized graphic arts fields. These include: Introduction to Printing, Electronic Imaging, Image Assembly/Plate Making, Advanced Electronic Prepress, Advanced Press Operation, Basic Offset Press, Finishing/Binding, Reproduction Photography and Advanced Image Assembly and Plate Making. In order for students to receive PrintEd Certification they must complete the tasks included in Graphic Arts Technology and any one of the other specialized areas of interest. These specialized areas of study will be accomplished through individualized instruction with a printing industry Journeyman instructor.

43401

INTRODUCTION TO GRAPHIC ARTS– Semester 1

Pre-requisites: None

FEE: \$10.00
(Grades 9-12)

One class period for no more than 20 students is designated for ninth graders.

Introduction to Graphic Arts introduces the student to skills related to digital image preparation, advertising design, and digital photography. Students learn about the variety of careers available in the high-tech computerized industry known as Graphic Arts Technology. **This course meets the ½ unit of credit in Fine Arts required for graduation.** This project-based course is a pre-requisite to all other Graphic Arts courses. (300301)

43401

INTRODUCTION TO GRAPHIC ARTS– Semester 2

Pre-requisites: Introduction to Graphic Arts – Semester 1

FEE: \$10.00
(Grades 9-12)

Students continue to develop skills in design, printing, and publishing. Projects include designing business cards, brochures, T-shirt and posters. The basic skills taught in this introductory course enable a student to determine in which media of design he/she prefers to work. (300301)

43408

FOUNDATION OF ARTS, A/V TECHNOLOGY & COMMUNICATION-Semester 1

FEE: \$10.00

Pre-requisites: None

(Grades 9-12)

This project-based, one-credit course is designed to introduce students to the areas of advertising design, animation, commercial photography, graphic arts and television production. Creative and musically talented students benefit from the skills learned in the recording studio. Classroom, laboratory and real-world experiences promote teamwork, leadership and further opportunities for application of knowledge and skills. PhotoShop, the most popular software in the advertising industry, is used in this course. **This course meets the ½ unit of credit in Fine Arts required for graduation.** (300201)

43408

FOUNDATION OF ARTS, A/V TECHNOLOGY & COMMUNICATION-Semester 2

FEE: \$10.00

Pre-requisites: Foundation of Arts, A/V Technology & Communication-Semester 1

(Grades 9-12)

The second semester of this course provides many opportunities for students to be creative and convey themes, ideas and concepts in projects related to communication using audio-video technology. Using a computer-based laboratory and Computer Animation software, students are provided opportunities to learn the history of animation, principles of character design and the use of elements of design to communicate personality of characters. (300201)

43513

OFFSET PRESS OPERATIONS – Semester 1

FEE: \$10.00

Pre-requisites: Introduction to Graphic Arts Technology

(Grades 10-12)

This course offers practical experience in offset printing in the workplace. The training includes safe operation and maintenance of equipment, following instructions and specifications, press make-ready, and production of quality printed products. Students demonstrate problem solving skills and become proficient in related mathematics and chemistry. (300305)

43513

OFFSET PRESS OPERATIONS – Semester 2

FEE: \$10.00

Pre-requisite: Offset Press Operations – Semester 1

(Grades 10-12)

In this course, students acquire opportunities to apply skills in producing a variety of printed materials. Instruction in use and maintenance of equipment is taught, along with safety. After completion, students will be very knowledgeable in skills and related theory that apply to a career in Press Operations. (300305)

43518

DIGITAL FILE PREPARATION – Semester 1

Pre-requisites: Introduction to Graphic Arts

FEE: \$10.00

(Grades 10-12)

Students will acquire skills in desktop publishing, page layout and graphic designs. Digital cameras, printers, and video projectors are used by the students to create digital designs and projects while refining desktop publishing skills. Upon completion, students will be able to demonstrate various computer operations using appropriate software for word processing, illustration, photo manipulating, and scanning. (300302)

43518

DIGITAL FILE PREPARATION – Semester 2

Pre-requisites: Digital File Preparation – Semester 1

FEE: \$10.00

(Grades 10-12)

Advanced digital imagery is taught using the latest technology in Digital Image. Students learn to create movies, burn music to CD and DVD, and work with Digital Photography. Pro Tools Recording Studio Digi 001-Digi 002 is also available for students to use in the studio. Computers used in this class are the G4 Mac and eMac. The software programs used are: iTunes, DVDi, iMovie, PageMaker, Freehand and other Adopt Products. (300302)

GRAPHIC ARTS EQUIPMENT UTILIZED IN THE PROGRAM:

This course uses both Macintosh and IBM compatible PC's. Programs such as Photo Shop 5.0, with Eye candy and Kai's Power Tools, Freehand 8, PageMaker, Illustrator, Streamline, and Type twister are extensively used. Scanners, printers, Xante Plate maker and Film Processor, 4-color and 6-color screen printing presses, A.B.Dick 385, A.B. Dick 9805 series offset press, digital camera, 35mm cameras, 4x4 box cameras, Pro Tools 001 & 002, GL2 Digital Video Camcorder, and Xante Illumina Printing Press are also utilized.

HEALTH SCIENCE

Career Cluster: Health Science
Pathway: Therapeutic Services
Program: Therapeutic Services

The Health Science program introduces students to the healthcare system and assists students in making realistic career decisions. The courses prepare students for acceptance in postsecondary healthcare education programs and/or employment in healthcare jobs. The Health Science program emphasizes the importance of project, service, and work-based learning experiences. These courses are designed to assist the student in acquiring knowledge and professional ethics essential to all healthcare learners and workers. Development of leadership skills is enhanced through student participation in Health Occupations of America (HOSA).

Career opportunities in the medical field are projected to increase for the next decade. Students have many opportunities to explore the health profession, learn skills and acquire knowledge while setting goals for life after high school.

All students must earn one-half unit of Health Education to receive a diploma. Earning one credit in Introduction to Medical Careers meets the requirements for a Health credit.

42411

INTRODUCTION TO MEDICAL CAREERS –Semester 1
(Foundations of Health Science)

FEE: \$10.00

Pre-requisites: None

(Grades 9-12)

Successful completion of both semesters of this course meets the ½ unit health requirement for graduation.

This course provides students with the opportunity to explore careers in one of the fastest-growing occupations in the nation. Medical professionals work in research laboratories, health clubs, and health-care facilities. Topics of study include: medical terminology, anatomy overview, communication skills, and employability traits needed in health science careers. This course is a pre-requisite and recommended for all students who plan to pursue a career in one of the many health-related fields at the postsecondary level. (510204)

42411

INTRODUCTION TO MEDICAL CAREERS –Semester 2
(Foundations of Health Science)

FEE: \$10.00

Pre-requisites: Introduction to Medical Careers Semester 1

(Grades 9-12)

Students continue to learn about the exciting opportunities in the health-care profession. During the second semester, emphasis is on topics such as legal and ethical implications, health promotion and wellness, and common technical skills required in the health care industry. Students will become competent in assessing vital signs, demonstrating cardiopulmonary resuscitation (CPR), administering first aid, and practicing infection control. CPR training is required for the health credit that applies toward graduation. (510204)

42512

SPORTS MEDICINE-Semester 1

FEE: \$10.00

Pre-requisites: None

(Grades 10-12)

This advanced course involves the student employing principles of growth and development in assessing the status of athletes. Students discover interests and abilities in sports-related medicine. Hands-on skills are acquired that relate to health issues concerning athletes as students work in healthcare teams and as they learn appropriate communications for addressing specific populations. Students pay for liability insurance, nametags and dues for HOSA. (510301)

42512

SPORTS MEDICINE-Semester 2

FEE: \$10.00

Pre-requisites: Sports Medicine – Semester 1

(Grades 10-12)

Course content for Sports Medicine includes the study of anatomy, communication skills, employability skills, safety, legal and ethical implications, dietary requirements, emergency plans and technical skills. The second semester provides opportunities for students to explore therapeutic careers in the exercise science/sports profession. (510301)

42516

HEALTH PROMOTION AND WELLNESS – (Fall) ½ Unit

FEE: \$10.00

Pre-requisites: None

(Grades 10-12)

This course emphasizes wellness concepts related to positive health behaviors. Students will develop an understanding of personal, client, and community health. Course content includes analyzing social and environmental concerns to determine their effect on personal health such as: high crime rate and quality of life, air pollution and lunch disorders, second-hand smoke and respiratory illnesses, noise pollution and hearing loss. Students will identify internal variables (e.g., religion, genetics, developmental stages) and external variables (e.g., media, peers socioeconomic

background) that influence health beliefs and practices and be able to explain safety practices required in health care agencies. (510401)

42515

DENTAL ASSISTING – (Spring)

½ Unit

FEE: \$10.00

Pre-requisites: None

(Grades 10-12)

This introductory course to the profession of dental assisting offers many opportunities for project-based learning while giving students a “head start” on a high demand job. Students learn what is required to be successful in the dental field. Topics include state laws pertaining to dentistry, communication skills, working with dental equipment and organizing a dental treatment room, anatomy of the head and neck, structures and surfaces of the teeth, infection control and preventive oral care/hygiene. Students will have many opportunities for lab projects such as using plaster of paris to make dental impressions, applying principles of dental hygiene and demonstrating infection control procedures used in dental offices. (510302)

42514

INTRODUCTION TO PHARMACY-Semester 1

FEE: \$10.00

Pre-requisites: None

(Grades 10-12)

This one-credit course introduces students to exciting careers in the pharmacy profession. Course content emphasizes the history of medicine, mathematics, technology, and legal issues. Students will have opportunities to explore careers in pharmacy, compare roles of the pharmacist and the pharmacy technician, and demonstrate the use of pharmaceutical resources. Upon completion of this course, students will be able to describe ethical characteristics required in the pharmacy workplace, explain state laws and regulations relating to pharmacy, translate medical terms, identify classifications of drugs, and differentiate among drug interactions, drug reactions, and side effects. (510402)

42514

INTRODUCTION TO PHARMACY-Semester 2

FEE: \$10.00

Pre-requisites: Introduction to Pharmacy Semester 1

(Grades 10-12)

This semester is a continuation of the first semester. Students continue to learn about the pharmaceutical industry and the role of the pharmacist. Careers in pharmacy have been identified as one of the top ten high-wage, high-demand careers. Using science and problem-solving skills, people interested in this profession create new medicines, discover cures for diseases, and use technology in the workplace. Topics addressed include: legal and illegal drugs, lifesaving treatments through pharmaceutical research, and the role of citizens in drug legislation and drug education. (510402)

42521

HEALTH SCIENCE INTERNSHIP/CO-OP

2 Units

FEE: \$10.00
(Grades 11- 12)

Pre-requisites: Completion of one or more credits in Health Science OR three credits in any combination of the following: Biology, Chemistry or Physics. Students desiring to work in a clinical setting are required to have an interview with the CO-OP Coordinator for job placement.

This course provides the opportunity for a student to work in a health field while attending school. Students participate in clinicals in a healthcare area, performing the following: entry-level healthcare skills; legal and ethical behaviors; and skills that exhibit knowledge of CPR. Skill performance and legal/ethical awareness as they relate to the health science professions are stressed. Students pay for liability insurance, nametags, and dues for HOSA. (510303 – 1 credit; 510304 – 2 credits)

42529

HEALTH SCIENCE LAB ASSISTANT

No Credit

FEE: None
(Grades 10-12)

Pre-requisites: Approval by Instructor

A small group of specially selected students aid the Health Science Department in gathering materials, setting up laboratories, filing and inventorying supplies, and performing other duties as directed by the teacher. (990150)

HEALTH SCIENCE EQUIPMENT UTILIZED IN THIS PROGRAM:

Balanced scales, Scale that calculates body fat and weight, Whirlpool bath for extremity and whole body, Hospital bed, Physical therapy exercise table, Blood pressure cuffs, Computers with programs for sports medicine (cardiac diagnostic, radiology, dentistry) and medical terminology, Mannequins (CPR & whole body), and Treadmill.

MILITARY SCIENCE

Career Cluster: Government and Public Administration

Pathway: Public Management and Administration

Program: Government and Public Administration

Junior Reserve Officer Training Corps (JROTC) is a student-led program that teaches citizenship, leadership and life skills. Students are motivated to become better citizens. Topics include first aid, map reading and organization and planning skills. College-bound students and students preparing for the workforce benefit from experiences that foster self-discipline, self-confidence, leadership skills, character building and citizenship. Each student completes a resume that documents abilities and potential for obtaining scholarships for postsecondary education. Many promotional opportunities are available for cadets completing two or more years of JROTC. In addition, *college credit may be awarded for participation in JROTC.*

Benefits of taking JROTC include:

- Extra-Curricular Activities such as the *Raiders* training group
- Color Guard Cadet presentation of colors
- Rifle Team
- Drill Team
- Community service projects
- Military Ball
- Summer Leadership Camp
- Dual Enrollment

37415

Junior ROTC (JROTC), Level I – Semester I

Pre-requisites: None

FEE: None

(Grades 9-12)

This course introduces students to the US Army Reserve Officer Training Corps (ROTC) program. It engages students in the practice of basic citizenship and in the exploration of opportunities for non-military and military national service. Students also learn success skills to help them cope with high school and college. Topics covered during the first semester include the history of Junior ROTC; military traditions, customs and courtesies; JROTC uniform wear and personal appearance; the JROTC and Army rank structure; and the structure, mission and function of the Department of Defense and each of the military services. Success skills topics include development of better studying, reading, and test-taking skills. Students participate in physical fitness activities and Army drill and ceremony once a week and in JROTC fundraising and service projects. They also have the opportunity to participate in rifle, drill and physical fitness teams that compete against other JROTC programs. Uniforms and footwear are issued free of charge but are returned at the completion of the semester. (280311)

37415

Junior ROTC (JROTC), Level I – Semester 2

FEE: None

Pre-requisites: JROTC Level 1, semester 1 (May be waived by instructor)

(Grades 9-12)

This course focuses on leadership – what a student needs to know to influence others, and how to apply that knowledge when in a leadership position. Students learn such skills through classroom instruction, practical situations in the classroom, and hands-on projects that require the use of leadership skills. They learn about character and values, leadership theories and principles, and human behavior. Topics include: goal setting, decision making and problem solving, negotiating, supervising, team development, mentoring, styles of leadership, management skills, communication, and motivating others. Students plan and execute a formal Military Ball. They also have the opportunity to participate in rifle, drill and physical fitness teams that compete against other JROTC programs. Students participate in physical fitness activities and Army drill and ceremony once a week and in JROTC fundraising and service projects. Uniforms and footwear are issued free of charge but are returned at the completion of the semester. (280311)

37416

Junior ROTC (JROTC), Level 2 – Semester 1

FEE: None

Pre-requisites: JROTC Level 1 (May be waived by instructor)

(Grades 10-12)

This course provides training for getting started in a total fitness program, handling common emergencies, and implementing lifesaving measures. There is also training on substance abuse awareness, intervention, and prevention. By learning the value of physical exercise, conditioning and proper diet, students gain the necessary knowledge to start a healthy diet and exercise plan. Topics include: choosing the right exercise program; proper nutrition; dietary guidelines; stress management; drug and alcohol awareness; tobacco-use avoidance and cessation; CPR; controlling bleeding; treating shock; first aid for poisons, stings, and burns; and recognizing and treating hot and cold weather-related injuries. Students continue to apply leadership practices and skills learned in level one to JROTC fundraising, service projects, social events, and JROTC participation in school activities. Students also continue participating in marksmanship, drill and ceremony, and physical fitness activities. Uniforms and footwear are issued free of charge but are returned at the completion of the semester. (280311)

37416

Junior ROTC (JROTC), Level 2 – Semester 2

FEE: None

Pre-requisites: Level 2 – semester 1 (May be waived by instructor)

(Grades 10-12)

This course is designed to provide cadets with hands-on learning activities to encourage self-assessment, build self-awareness, and promote personal intelligence that help them to think clearly, solve problems, and make decisions that will lead to success in school and life. Students are introduced to brain function and the learning process – how information is perceived and organized by the brain and how each individual has a preferred or dominant way of learning. Students complete a Personal Skills Map that provides information on how they learn, and they use it to develop a Personal Growth Plan designed to strengthen weaker skills and reinforce stronger ones. They are also taught strategies to use to become more active learners. Students learn the importance of effective communications when addressing individuals and groups, how to become better listeners and how to resolve conflicts in group environments. They learn how to effectively use PowerPoint software to create briefings, and are taught how to brief effectively, create a briefing, and present the briefing to their peers. They are also introduced to map reading and land navigation skills that they will use the following year. Students continue to apply leadership practices and skills in and outside of the classroom and continue to participate in marksmanship, drill and ceremony, and physical fitness activities. Uniforms and footwear are issued free of charge but are returned at the completion of the semester. (280311)

37417

Junior ROTC (JROTC), Level 3 – Semester 1

FEE: None

Pre-requisites: JROTC Level 2 (May be waived by instructor)

(Grades 10-12)

This course helps students develop a global perspective and awareness of environmental issues by engaging them in interactive experiences that explore the use of maps, map reading, and the sport of orienteering (navigating over land with a map and compass). Beginning lessons provide an introduction to components of the globe including the poles, equator, latitude, longitude, the continents, and the oceans. In subsequent lessons, cadets fully explore each continent geographically based on its physical, political, economic, and cultural characteristics. They also receive instruction that assists in enhancing awareness of environmental issues. On a smaller scale, students learn contours and landform; how to use the marginal information on maps; how to determine distance, direction and location; how to use a map's grid coordinate system and convert grid-magnetic angles; and how to read aeronautical symbols and aeronautical charts. Students continue to apply leadership practices and skills in and outside of the classroom and continue to participate in marksmanship, drill and ceremony, and physical fitness activities. Uniforms and footwear are issued free of charge but are returned at the completion of the semester. (280311)

37417

Junior ROTC (JROTC), Level 3 – Semester 2

FEE: None

Pre-requisites: JROTC Level 3, semester 1, (May be waived by instructor)

(Grades 10-12)

This course builds the basic skills and interest for participation in civic and political life. Students engage in a curriculum that explores the origins, structure, rights, and responsibilities of the American constitutional government. It introduces cadets to the values and principles that underlie good citizenship. Emphasis is placed on topics such as the importance of the U.S. Constitution and Bill of Rights, responsibilities of U.S. citizens, basic national values, the US federal justice system, and service to the community and country. Students view the demonstration of citizenship skills individually and nationally as they explore American military and political history from 1776 to the present day. Each history lesson is focused on the development of citizenship. Lastly, students examine modern-day governmental function and political problems and use the skills they learn to assess the state of our government and to discuss and recommend solutions to problems the Nation faces. Students continue to apply leadership practices in and outside of the classroom and continue to participate in marksmanship, drill and ceremony, and physical fitness activities. Uniforms and footwear are issued free of charge but are returned at the completion of the semester. (280311)

37418

Junior ROTC (JROTC), Level 4 – Semester 1

FEE: None

Pre-requisites: JROTC Level 3 (May be waived by instructor)

(Grades 10-12)

Fourth year students are key to the effective functioning of the JROTC Battalion, and classes are centered on hands-on planning of and preparation for JROTC functions and events. Students apply all leadership skills learned in levels 1-3. They review the deliberate decision-making process, preparation of decision matrices and the military planning process. Then they apply these processes to all activities. Students analyze the requirements for and plan color guard operations, firing detail participation, parade requirements, homecoming activities, fundraisers, Veterans Day events, Haunted Trail participation, *Esprit De Corps* Days, and social events. Students write operations orders for each event, assign and delegate responsibilities, and follow up to ensure that all tasks are accomplished; then they lead the activities. Students master Word, EXCEL, and PowerPoint software programs. Uniforms and footwear are issued free of charge but are returned at the completion of the semester. (280311)

37418

Junior ROTC (JROTC), Level 4 – Semester 2

FEE: None

Pre-requisites: JROTC Level 4, Semester 1 (May be waived by instructor)

(Grades 10-12)

Second-semester students continue planning, preparation, execution and leadership activities to ensure effective functioning of the Battalion. Students apply all leadership skills learned in levels 1-3 and during the first semester of level 4. They analyze the requirements for and plan color guard operations, firing detail participation, parade requirements, fundraisers, social service projects and *Esprit De Corps* Days. The focal point for students' efforts is the planning of the Military Ball and the end-of-year awards ceremony. Students coordinate extensively with individuals external to the school system to ensure success of both events. They continue to write operations orders, assign and delegate responsibilities, and follow up to ensure that all tasks are accomplished. Students continue to plan weekly drill and ceremony and physical fitness activities; then they lead the activities. As well, cadets are assigned leadership topics to teach to level 1 students, and they are responsible for researching, developing lesson plans, preparing visual aids, rehearsing and effectively teaching the classes. Students master Word, EXCEL, and PowerPoint software programs. Uniforms and footwear are issue free of charge but are returned at the completion of the semester. (280311)

37419

Junior ROTC (JROTC), Level 5 – Semesters 1 and 2

FEE: None

Pre-requisites: Approval by instructor

(Grades 10-12)

Advanced Rifle and Drill is designed for cadets who seek the challenge of becoming expert marksmen and who desire to become highly proficient in armed and unarmed drill. The course is specifically for those students who wish to become members of either the Rifle or Drill Teams and compete against JROTC programs from other schools. During marksmanship instruction, students become adept in rifle safety, range operations, rifle functions and maintenance, primary marksmanship, and advanced marksmanship. During drill instruction, students become adept at armed and unarmed stationary drill movements, armed and unarmed marching drill movements, and armed precision drill movements. Students in the level five class practice leadership skills daily as they plan the activities for each class, organize the issue and turn-in of rifles, coordinate the use of school areas for the conduct of class, lead their peers in drill and range activities, and plan transportation and logistics for drill and rifle competitions. Students participating in this class must have had one year of JROTC or be concurrently enrolled in a JROTC class. Students must be approved by the instructor before enrolling in Advanced Rifle and Drill. (280311)

COMPUTER SCIENCE

14415

COMPUTER SCIENCE- Semester 1

FEE: \$10.00

Pre-requisites: Algebra B or Algebra I (CB) completed or in progress (Grades 9-12)

This course covers fundamental computer principles and provides students with a rigorous introduction to structured programming. (110201)

14415

COMPUTER SCIENCE-Semester 2

FEE: \$10.00

Pre-requisites: Computer Science –Semester 1 (Grades 9-12)

Students will further develop their programming skills. Emphasis is placed on techniques dealing with menus, string processing, sorting and searching, user-defined functions, data storage and file processing. (110201)

14543

ADVANCED PLACEMENT PROGRAMMING

FEE: \$20.00

Pre-requisites: Computer Science, Algebra II (Grades 10-12)

This course includes a study of the JAVA Programming language in preparation for the Advanced Placement Test in Computer Science. This course is offered only through dual enrollment. (110201)

14511

INDEPENDENT STUDY WITH COMPUTERS

FEE: \$20.00

Pre-requisites: Computer Science, Approval of Instructor (Grades 10-12)

The course is designed to provide opportunity for students to extend their abilities in programming. The course is relatively unstructured, leaving many areas open to investigation. (110201)

FOREIGN LANGUAGES

12401

GERMAN I-Semester 1

Pre-requisites: None

FEE: None
(Grades 9-12)

German I introduces the student to the fundamentals of the German language and the cultures of German-speaking countries. The approach is multi-media, incorporating text, video, audio and workbook materials. Considerable emphasis is placed on cultural enrichment. (160513)

12401

GERMAN I-Semester 2

Pre-requisites: German I-Semester 1

FEE: None
(Grades 9-12)

The student continues to explore basic conversations and sentence patterns, learning to converse in German about such familiar topics as school, family and hobbies. Consideration is also given to travel-related vocabulary and survival skills. Guest speakers enhance and broaden the scope of lessons studied whenever possible. (160513)

12501

GERMAN II-Semester 1

Pre-requisites: German I

FEE: None
(Grades 10-12)

This course re-emphasizes basic elements studied in German I and continues to build vocabularies and knowledge of sentence structure. It also broadens the scope of conversational situations. (160514)

12501

GERMAN II-Semester 2

Pre-requisites: German II-Semester 1

FEE: None
(Grades 10-12)

Students continue the development of listening, speaking, reading and writing skills. Particular emphasis is placed on the German heritage in America and a sampling of work by famous German writers, composers and scientists. (160514)

12403

FRENCH I-Semester 1

Pre-requisites: None

FEE: None
(Grades 9-12)

Based on an oral approach, this course takes the student through the text-and-video course to become familiar with the French language, people and customs. It introduces the basic French sounds, alphabet and vocabulary, using conversational situations about school, clothes, colors, buildings and families. Connections are made to other

subject areas, and comparisons are shown to the student's own language and culture. (160903)

12403

FRENCH I-Semester 2

Pre-requisites: French I-Semester 1

FEE: None
(Grades 9-12)

Building on the concepts begun in French I-Semester 1 and adding more to them, the student becomes familiar with various grammatical structures such as subject-verb combinations and adjective-antecedent agreement. (160903)

12503

FRENCH II-Semester 1

Pre-requisites: French I

FEE: None
(Grades 10-12)

This course emphasizes the studies begun in French I-Semesters 1 and 2, with more work on speaking and writing French. Emphasis is also placed on customs and culture of France and on other Francophone countries and areas. (160904)

12503

FRENCH II-Semester 2

Pre-requisites: French II-Semester 1

FEE: None
(Grades 10-12)

Students are encouraged to participate in class discussions and to practice their vocabulary in conversational situations. More work is done in vocabulary building as well as in more advanced grammar and writing. (160904)

12603

FRENCH III-Semester 1

Pre-requisites: French II

FEE: None
(Grades 11-12)

Emphasis is placed on the continued development of the four basic skills in language learning: reading, writing, speaking and listening. Increased emphasis is placed on the use of French for verbal communication. Emphasis is placed on the study of French history, art and poetry. (160905)

12603

FRENCH III-Semester 2

Pre-requisites: French III-Semester 1

FEE: None
(Grades 11-12)

Additional emphasis is placed on improving awareness and understanding of cultural contrasts between American people and customs and the people and customs of French-speaking countries. Sharpening of skills in reading and writing in French is continued. (160905)

12703 or 12743 (AP)

FRENCH IV-Semester 1

Pre-requisites: French III

FEE: None
(Grade 12)

A survey of French literature is begun, including excerpts from masterpieces of well-known French authors. More use of written composition is employed: essays are written in and outside of class. Listening opportunities include radio broadcasts, TV programs and full-length movies. Students may enroll for either regular or Advanced Placement credit. (160906, 160908)

12703 or 12743 (AP)

FRENCH IV-Semester 2

Pre-requisites: French IV-Semester 1

FEE: None
(Grade 12)

Advanced study continues with the student delving further into French masterpieces and becoming more skillful in the development of writing skills. Increased preparation for transition to college-level French courses includes intensive verb study and grammar review. Journal and creative writing are taught. (160906, 160908)

12405

LATIN I-Semester 1

Pre-requisites: None

FEE: None
(Grades 9-12)

This course introduces the student to the vocabulary and structure of the Latin language and includes word derivation to tie it to English. Students are introduced to aspects of Roman history and culture. (160920)

12405

LATIN I-Semester 2

Pre-requisites: Latin I-Semester 1

FEE: None
(Grades 9-12)

This course continues to build on vocabulary and structure begun in Latin I-Semester 1. More emphasis is placed on translations from Latin to English. Efforts are continued to show the relationships between Latin and English vocabularies. (160920)

12505

LATIN II-Semester 1

Pre-requisites: Latin I

FEE: None
(Grades 10-12)

More advanced grammatical principles are studied. Translations are done primarily from Latin to English. (160921)

12505

LATIN II-Semester 2

Pre-requisites: Latin II-Semester 1

FEE: None
(Grades 10-12)

Students continue their translations and their study of the culture and history of the Roman people. (160921)

12605

LATIN III PROSE –Semester 1

Pre-requisites: Latin II

FEE: None
(Grades 11-12)

Students translate a variety of Latin authors and study aspects of Roman history and civilization. (160922)

12605

LATIN III PROSE – Semester 2

Pre-requisites: Latin III-Semester 1

FEE: None
(Grades 11-12)

A continuation of the study begun in Latin III Prose-Semester 1 constitutes the basis of this course. (160922)

12705 or 12745 (AP)

LATIN IV POETRY-Semester 1

Pre-requisites: Latin III Prose

FEE: None
(Grades 11-12)

Students may enroll in this course for either regular or Advanced Placement credit. The primary focus of this course is the translation of Vergil's Aeneid. In addition, students will study aspects of Roman civilization as well as Vergil's life and writing style. The course also includes analyzing Roman poetry, with emphasis on scansion and figures of speech. (160923, 160925)

12705 or 12745 (AP)

LATIN IV POETRY –Semester 2

Pre-requisites: Latin IV Poetry-Semester 1

FEE: None
(Grades 11-12)

This course is a continuation of the study begun in Latin IV POETRY – Semester 1. It might include some Latin composition and a sampling of other Roman poets for enrichment. (160923, 160925)

12407

SPANISH I – Semester 1

Pre-requisites: None

FEE: None
(Grades 9-12)

Spanish I-A is an introductory course in the language and customs of Spanish-speaking nations. Using oral methods the student learns to speak, read and listen. Simple vocabulary and situations strengthen memory lessons learned from tests, CD's, DVDs, websites, computer software and workbooks. (160933)

12407

SPANISH I-Semester 2

Pre-requisites: Spanish I-Semester 1

FEE: None
(Grades 9-12)

More vocabulary is added to the words and expressions already learned. Verb usage is added, and the student begins to experiment with more realistic situations in which to use Spanish. (160933)

12408

HONORS SPANISH I – Semester 1

Pre-requisites: None

FEE: None
(Grades 9-12)

For the student with an aptitude for and high interest in other languages, Honors Spanish I is ideal. It sets the stage for smooth transition into AP Spanish. (160933)

12408

HONORS SPANISH I – Semester 2

Pre-requisites: Honors Spanish I – Semester 1

FEE: None
(Grades 9-12)

As this course progresses into the second semester, students continue to learn the target language at an accelerated rate. They become immersed in the totality of the language and the culture in which it originated. (160933)

12511

SPANISH II-Semester 1

Pre-requisites: Spanish I

FEE: None
(Grades 9-12)

Speaking Spanish is encouraged in this course as the student becomes more advanced in the handling of the language, workbooks, newspapers, CD's, DVD's, websites, computer software, and Spanish-speaking citizens add great variety to the course. (160934)

12511

SPANISH II-Semester 2

Pre-requisites: Spanish II-Semester 1

FEE: None
(Grades 9-12)

Speaking Spanish as exclusively as possible is encouraged in this course as the student becomes more advanced in the handling of the language, workbooks, newspapers, CD's, DVD's, websites, computer software, and Spanish-speaking citizens add great variety to the course. (160934)

12607

SPANISH III-Semester 1

Pre-requisites: Spanish II

FEE: None
(Grades 10-12)

This course gives the student a more direct view of Spain and Latin America geographically, historically and culturally. Advanced grammar is continued. Reading comprehension is strengthened through a variety of authentic texts. (160935)

12607

SPANISH III-Semester 2

Pre-requisites: Spanish III-Semester 1

FEE: None
(Grades 11-12)

Looking more intently at the geography, history and culture of Spanish-speaking countries, this course encourages the student to use his Spanish-language ability in both formal and informal ways in the classroom. (160935)

12707 or 12747 (AP)

SPANISH IV-Semester 1

Pre-requisites: Spanish III

FEE: None
(Grade 12)

Spanish is the primary language of the classroom, with students writing short essays in the language. Vocabulary building and advanced grammar are emphasized. Reading extended pieces in Spanish is encouraged. Students may enroll for either regular or Advanced Placement credit. AP students are encouraged to take the AP examination. (160936, 160938)

12707 or 12747 (AP)

SPANISH IV-Semester 2

Pre-requisites: Spanish IV-Semester 1

FEE: None
(Grade 12)

Spanish language usage is increased with reading and films. Grammar review is extensive in order to prepare students for college entrance tests. Students may enroll for either regular or Advanced Placement credit. AP students are encouraged to take the AP examination. (160936, 160938)

JOURNALISM

11504

JOURNALISM-Semester 1

Pre-requisites: "C" Average in English

FEE: \$5.00

(Grades 10-12)

An introduction to the field of journalism, this course focuses primarily on print journalism. The major emphasis is on writing for publication in the mass media. Students will assist with yearbook sales. (090411)

11504

JOURNALISM-Semester 2

Pre-requisites: Journalism-Semester 1

FEE: \$5.00

(Grades 10-12)

Building upon the skills developed in the first semester, the student continues to write on a wide variety of topics in the styles appropriate for the field of journalism. Aspects of yearbook and newspaper production are also covered. Students will assist with yearbook sales. (090411)

11418

YEARBOOK-Semester 1

Pre-requisites: Keyboarding skills recommended and Teacher Approval

FEE: \$5.00

(Grades 9-12)

Students produce the yearbook. They are given practice in all aspects of the production process, including such things as writing copy, designing the cover and the page layouts, and developing a theme and its related content. Students are responsible for designing and selling advertisements as well as for assisting with yearbook sales. (090441)

11418

YEARBOOK-Semester 2

Pre-requisites: Yearbook-Semester 1 and Teacher Approval

FEE: \$5.00

(Grades 9-12)

As students continue the process of producing the yearbook, they learn such skills as selecting and cropping photographs, selling and designing advertisements, and using the computer to complete it. Learning to meet deadlines is also a valuable part of this course. Students are responsible for designing and selling advertisements as well as for assisting with yearbook sales. (090441)

11509

YEARBOOK ASSISTANT

Pre-requisites: Approval by Instructor

No Credit

FEE: None
(Grades 10-12)

A small group of specially selected students will aid the Yearbook Department in gathering materials, filing and inventorying supplies, setting up laboratories and performing other duties as directed by the teacher. (990150)

LANGUAGE ARTS

The Language Arts curriculum in grades 9-12 includes the five strands of communication: Reading, Writing, Speaking, Listening and Viewing. The standards from the Alabama Course of Study for the Language Arts are carefully followed in each grade.

Two sequences are available for students, based on their choice of either an Academic or an Advanced Academic diploma.

1. Sequence 1:
English, grades 9-12

2. Sequence 2:
Honors English, grades 9 and 10
English AP, grades 11 and 12

Read carefully through the Language Arts and Journalism sections to learn about the variety of elective courses available such as Creative Writing, Journalism, Drama and Yearbook.

11411

CREATIVE WRITING –Semester 1

Pre-requisites: None

FEE: None
(Grades 9 - 12)

Students are encouraged to express themselves creatively by writing short stories, essays, poetry and one-act plays. Students may also create artwork, photography, music, and computer graphics for use in the literary-arts magazine. Students will have multiple opportunities to write for scholarships and prize money. Field trips, workshops, guest speakers, and writing festivals are an important part of the class. (230511)

11411

CREATIVE WRITING –Semester 2

Pre-requisites: Creative Writing –Semester 1

FEE: None
(Grades 9- 12)

This course is a continuation of semester one. As students become more comfortable with the production of the various forms of writing, they begin to sharpen their skills and to exhibit maturity in their writing. (230511)

11505

ADVANCED CREATIVE WRITING –Semester 1

FEE: None
(Grades 10-12)

Pre-requisites: Creative Writing Semester 1

Advanced students continue to participate in all creative writing activities. In addition, advanced students are responsible for the content selection, layout, and publication of the literary-arts magazine. Students also sell patron subscriptions and delivery of the magazine. (230511)

11505

ADVANCED CREATIVE WRITING –Semester 2

FEE: None
(Grades 10-12)

Pre-requisites: Advanced Creative Writing –Semester 1

This course is a continuation of semester one. Typically, students in this course enter all kinds of writing contests and win many of them. They read good examples of writing and learn from them as they stretch themselves as writers. (230511)

11609

LITERARY PUBLICATIONS ASSISTANT

No Credit

FEE: None
(Grades 10-12)

Pre-requisite: Creative Writing, Teacher Approval

A small group of specially selected students aid the Literary Publications Department in gathering materials, filing and inventorying supplies, setting up laboratories and performing other duties as directed by the teacher. (990150)

11411

EXPLORATION IN THEATRE

½ Unit

FEE: None
(Grades 9-12)

Pre-requisites: None

In this course, students learn the correlation between history/culture and theatre. They also learn to identify basic elements of theatrical training and of staging a production as they participate in such activities as readers’ theatre and oral interpretation. This course meets the requirements for the ½ unit in Fine Arts. (500561)

11413

THEATRE I-Semester 1

FEE: \$5.00
(Grades 9-12)

Pre-requisites: None

An introduction to theatre, this course includes the study of plays, make-up and costume, technical areas of production, acting, film study and voice and diction. Emphasis is on developing interest in theatre and on how theater skills can be translated into everyday living skills. (500561)

11413

THEATRE I-Semester 2

Pre-requisites: Theatre I-Semester 1

FEE: \$5.00
(Grades 9-12)

A continuation of the topics begun in the first semester, this course goes into greater detail and builds further on the development of student interest in drama. (500561)

11507

THEATRE II-Semester 1

Pre-requisites: Theatre I or approval by instructor

FEE: \$5.00
(Grades 10 - 12)

This course provides the motivated theatre student the opportunity to develop further the talents and techniques needed for a variety of stage performances (e.g., solo and duet acting and literary interpretation). Individual instruction is given in the areas of vocal training, stage movement, characterizations and timing for the stage and film. This is a performance-oriented course. (500562)

11507

THEATRE II-Semester 2

Pre-requisites: Theatre II-Semester 1

FEE: \$5.00
(Grades 10 - 12)

Concentrating on in-depth performance, this is a laboratory course with emphasis on performing before an audience. Students formulate talents for major production work as well as for district and state competition. (500562)

11607

THEATRE III-Semester 1

Pre-requisites: Theatre II or approval by instructor

FEE: \$5.00
(Grades 11-12)

This is a concentrated laboratory for rehearsal and performance of plays. Emphasis is on major production work as well as on district and state drama competition. (500563)

11607

THEATRE III-Semester 2

Pre-requisites: Theatre III-Semester 1

FEE: \$5.00
(Grades 11-12)

A continuation of Theatre III-Semester 1, this course also includes opportunities for students to experience various area of individual interest (e.g., stage management, film projects, directing, acting). Actual performance continues to be its emphasis. (500563)

11707

THEATRE IV-Semester 1

FEE: \$5.00

Pre-requisites: Theatre III or approval by instructor

(Grade 12)

While it is a continuation of Theatre III, in this course students specialize in areas of interest. Heavy emphasis is placed on district and state competition in the various categories (e.g., literary interpretation, solo acting, duet acting, improvisation, film projects). (500564)

11707

THEATRE IV-Semester 2

FEE: \$5.00

Pre-requisites: Theatre IV-Semester 1

(Grade 12)

Rehearsals and performances of plays, with students having hands-on experiences in such aspects as acting and directing, mark this course. Students wishing to further their theatre education in college will prepare for possible scholarships. (500564)

11511

STAGECRAFT –Semester 1

FEE: \$5.00

Pre-requisites: Teacher Approval

(Grades 10-12)

This class concentrates entirely on the elements of technical theatre. Students have hands-on experiences working with different types of stage lighting, sound equipment and set construction. Students must be willing to work after school on occasion. (500511)

11511

STAGECRAFT-Semester 2

FEE: \$5.00

Pre-requisites: Stagecraft-Semester 1

(Grades 10-12)

Students learn to work with advanced elements of technical theater. Members of the class assist various professional theatre and concert groups who come to the high school throughout the year. Students must be willing to work after school on occasion. (500511)

11409

THEATRE ASSISTANT

No Credit

FEE: None

Pre-requisites: Drama I; Teacher/Principal Approval

(Grades 10-12)

Students enrolled in this course are trained to assist the theatre program by preparing necessary materials, typing, filing, and working with the teacher and the class on various projects. (990150)

11513**ARTS SURVEY-Semester 1**

Pre-requisites: None

FEE: None
(Grades 10-12)

Arts Survey comprehensively introduces the student to the four arts disciplines – dance, music, theatre and visual arts. Special attention is given to periods and movements from Classical Greece to Modernism. Field trips and resource people are used frequently. (500100)

11513**ARTS SURVEY-Semester 2**

Pre-requisites: Arts Survey-Semester 1

FEE: None
(Grades 10-12)

A variety of arts is explored in depth by unit. Units include music, dance, theatre, architecture, photography, world holidays, world religions, American crafts, and film. Field trips and resource people are used frequently. (500100)

11441**HONORS ENGLISH 9-Semester 1**Pre-requisites: Recommendation by 8th grade English teacher**FEE: None**
(Grade 9)

Designed to challenge the advanced student, this course focuses on the following: intensive grammar study; the short story; the novel; mythology; vocabulary; critical viewing; critical listening; oral language; the research process; and narrative, expository, persuasive, creative, and analytical writing. (230102)

11441**HONORS ENGLISH 9-Semester 2**

Pre-requisites: Honors English 9-Semester 1

FEE: None
(Grade 9)

A continuation of Honors English 9-Semester 1, this course focuses on the following: grammar study; poetry, including epic poetry; non-fiction; drama; the novel; vocabulary; critical viewing; critical listening; oral language; the research paper; narrative, expository, argumentative, creative, and analytical writing. (230102)

11541**HONORS ENGLISH 10-Semester 1**Pre-requisites: Recommendation by 9th grade English teacher**FEE: None**
(Grade 10)

Designed to prepare the serious English student for entry into eleventh grade Advanced Placement English, this course offers an in-depth approach to selected works of literature and to writing skills. It focuses on: vocabulary; language usage; writing (expository, narrative, persuasive, analytical); oral activities and critical listening and viewing. (230102)

11541

HONORS ENGLISH 10-Semester 2

Pre-requisites: Honors English 10-Semester 1

FEE: None
(Grade 10)

This course continues the studies begun in Honors English 10-Semester 1. It focuses on the following: vocabulary; poetry; the play; writing; research; listening and viewing. Students write primarily about literature. (230102)

11641

ADVANCED PLACEMENT ENGLISH 11-Semester 1
(Language and Composition)

Pre-requisites: English 10 or Honors English 10

FEE: None
(Grade 11)

This course, part of the college-level instructional program, is designed for a select group of juniors whose standardized tests scores and grades indicate their ability to handle the challenging material. It focuses on the analytical study of American prose. (230104)

11641

ADVANCED PLACEMENT ENGLISH 11-Semester 2
(Language and Composition)

Pre-requisites: AP English 11-Semester 1

FEE: None
(Grade 11)

A continuation of AP English 1-Semester 1, this course emphasizes reading literary selections and reacting to them in written form. Students are encouraged to take the Advanced Placement Examination in English Language and Composition in the spring. (230104)

11741

ADVANCED PLACEMENT ENGLISH 12-Semester 1
(Literature and Composition)

Pre-requisites: English 11 or AP English 11

FEE: None
(Grade 12)

Designed for academically talented students, this course focuses on world literature (especially novels and drama) and on learning to write literary criticism based on that literature. It offers a select group of seniors the opportunity to experience college-level work, using college-level textbooks. (230104)

11741

ADVANCED PLACEMENT ENGLISH 12-Semester 2
(Literature and Composition)

FEE: None

Pre-requisites: AP English 12-Semester 1

(Grade 12)

As this course for advanced students continues from AP English 12-Semester 1, students perfect critical reading and writing skills and take the Advanced Placement Examination in English Literature and Composition in the spring. (230104)

11403

ENGLISH 9-Semester 1

FEE: None

Pre-requisites: None

Based on a study of world literature, this course integrates all phases of language study. Grammar, mechanics and writing are addressed through writing, reading, and focused study. Listening, speaking and viewing are also related directly to the reading and writing experiences. The narrative, expository, descriptive and persuasive modes of writing are practiced. Vocabulary building and research skills are included. Reading comprehension skills are covered extensively. (230109)

11403

ENGLISH 9-Semester 2

FEE: None

Pre-requisites: English 9-Semester 1

Continuing the study of world literature begun in the first semester, this course extends and expands the skills involved in an integrated English course: speaking, listening, reading, writing, viewing, grammar and mechanics. Paragraph and essay organization are stressed as part of the writing process. The narrative, expository, descriptive and persuasive modes of writing are practiced in preparation for the Direct Assessment of Writing. Vocabulary building and research skills are included. Reading comprehension skills are covered extensively. (230109)

11503

ENGLISH 10-Semester 1

FEE: None

Pre-requisites: English 9

Encompassing American Literature from the Colonial period to 1900, tenth grade English focuses on the integration of listening, speaking, reading, writing and viewing. Vocabulary building and research skills are included. Objectives included in the AHSGE are extensively reviewed. (230110)

11503

ENGLISH 10-Semester 2

FEE: None

Pre-requisites: English 10-Semester 1

Building upon the progression of skills and concepts covered in the first semester, this course assists the student in seeing the relationships among all five aspects of language usage. Vocabulary building and research skills are included. Objectives included in the AHSGE are extensively reviewed. (230110)

11603

ENGLISH 11-Semester 1

FEE: None

Pre-requisites: English 10

In this course students read from American literature since 1900 while writing and discussing responses to ideas, characters and styles. They read novels, biographies, short stories, plays, poetry and non-fiction as bases for skill-building. (230111)

11603

ENGLISH 11-Semester 2

FEE: None

Pre-requisites: English 11-Semester 1

Extending the knowledge and skills learned in the first semester, students in this course are actively involved in practices that link the language strands of listening, speaking, reading, writing and viewing. (230111)

11703

ENGLISH 12-Semester 1

FEE: None

Pre-requisites: English 11

Through a survey of world literature, with emphasis on British literature, students become more proficient in communication skills. Revising for clarity and effectiveness is a major goal, as well as editing for accepted conventions of the language. (230112)

11703

ENGLISH 12-Semester 2

FEE: None

Pre-requisites: English 12-Semester 1

Bringing together the range of language skills learned throughout the grades, students in this course engage in critical listening, speaking, reading, writing and viewing activities to further develop their thinking and problem-solving abilities. (230112)

21407, 21507, 21607, 21707

LIFE SKILLS ENGLISH I, II, III, IV

FEE: None

Pre-requisites: None for Employment English I

These courses provide instruction which meets the functional content standards necessary for achieving competency in reading, writing and language usage in the workplace and in the community. (652101, 652102, 652103, 652204)

MATHEMATICS

The emphasis of the Grades 9-12 mathematics program is mathematical understanding and problem solving. To this end, a variety of courses is offered to provide for the needs of students. Care has been taken to incorporate Mathematics Course of Study objectives and standards from the Curriculum and Evaluation Standards for School Mathematics. Four mathematics credits are required for graduation. As part of the four credits, students must successfully complete content in the Algebra I and geometry course categories.

To have Advanced Academic Endorsement, students must earn four units of mathematics which include Algebra I, Geometry, and Algebra II with Trigonometry.

Two sequences have been designed to meet the required state course of study in mathematics and to enhance the individual abilities of each student. Sequences are not static; students may move from one to another.

- (1) In Sequence 1 (ACADEMIC) basic algebra and basic geometry are presented at a pace which allows the student to experience success and to acquire the mathematical power necessary for a productive life.
 - Algebra I A
 - Algebra I B
 - Geometry Concepts
 - Algebraic Connections or Algebra II Without Trigonometry
- (2) Sequence 2 (Advanced/Honors Endorsement) is recommended for students with the background and ability to enter a college-preparatory program. Completion of this sequence will provide the necessary pre-requisites for college mathematics.

ADVANCED

Algebra I
Geometry
Algebraic Connections
Algebra II with Trigonometry
Or
Geometry
Algebraic Connections
Algebra II with Trigonometry
Algebra III / Statistics
Or
Geometry
Algebra II with Trigonometry and/or Algebraic Connections
Algebra III / Statistics
Pre-Calculus With Trigonometry or AP Statistics

HONORS (for those students who can handle mathematics at an accelerated pace)

Honors Geometry
Honors Alg. II w/Trigonometry
Honors Pre-Calculus
Cal. AB or BC or AP Statistics

NOTE: Algebraic Connections may precede, follow or be taken simultaneously with Algebra II With Trigonometry in the Advanced Academic track or Algebra II Without Trigonometry in the Academic track.

24413, 24513

ESSENTIAL MATHEMATICS I, II

Pre-requisites: None

FEE: None

(Grades 9-10)

The content of these courses address the learning style of each student. Pupils use hands-on materials, manipulatives and other resources to assist in their achievement of skills. Instruction focuses on integrating problems into real-life applications. (653211, 653212)

24613, 24713

ALGEBRAIC EXPLORATIONS I, II

Pre-requisites: Essential Mathematics II

FEE: None

(Grades 11-12)

Students who have mastered essential mathematics skills are now ready to move into Algebra and Geometry. Emphasis is on basic operations involving integers, numerical expressions, algebraic expressions, angle measurement, measurement of circles and the surface area of rectangular solids. (653213, 653214)

14413

ALGEBRA I A – Semester 1

Pre-requisites: None

FEE: None

(Grades 9 - 12)

This course is a formal, in-depth study of algebraic concepts and the real number system, designed at a pace consistent with successful mastery of those concepts. (Not for the Advanced Academic Diploma track) (270220)

14413

ALGEBRA I A – Semester 2

Pre-requisites: Algebra I A – Semester 1

FEE: None

(Grades 9 - 12)

This course continues the presentation of algebraic concepts begun in Algebra I A. By the conclusion of this course, students will have been introduced to material consistent with at least the first semester of Algebra I (CB). (Not for the Advanced Academic Diploma track) (270220)

14507

ALGEBRA I B – Semester 1

Pre-requisites: Algebra I A – Semesters 1 and 2

FEE: None
(Grades 10 - 12)

This course continues the presentation of algebraic concepts begun in Algebra I A. The course will begin with material usually presented in the second semester of Algebra I, including factoring, polynomials, rational expressions, linear equations, and systems of linear equations. (Not for the Advanced Academic Diploma track.) (270230)

14507

ALGEBRA I B – Semester 2

Pre-requisites: Algebra I B – Semester 1

FEE: None
(Grades 10 - 12)

This course continues the presentation of algebraic concepts begun in Algebra I B-Semester 1. At the conclusion of Algebra I B-Semester 2, students will have completed the study of topics presented in Algebra I CB consistent with the state course of study, including functions, radicals, and quadratic equations. (Not for the Advanced Academic Diploma track) (270230)

14411

ALGEBRA I CB- Semester 1

Freshman Center campus only

Pre-requisites: Teacher recommendation

FEE: None
(Grades 9-12)

This course is a formal, in-depth study of algebraic concepts and the real number system to be presented in one year. Presentation will include concepts such as simplifying expressions, solving equations and inequalities, graphing, mathematical modeling, data collection and problem solving. This is a college-bound course. (270404)

14411

ALGEBRA I CB-Semester 2

Pre-requisites: Algebra I-Semester 1

FEE: None
(Grade 9-12)

This course is a continuation of Algebra I CB-Semester 1 and will complete the study of Algebra I CB concepts in the state course of study. This is a college-bound course. (270404)

14601

GEOMETRY A –Semester 1

Pre-requisites: Algebra I B or Algebra I (CB)

FEE: None
(Grades 11 - 12)

This course provides experiences that increase students' understanding of shapes and their properties by using an investigative and application-oriented format. (270280)

14601

GEOMETRY B –Semester 2

Pre-requisites: Geometry A

FEE: None
(Grades 11 - 12)

This course is a continuation of Geometry A and emphasizes those concepts required by the new course of study for geometry. (270280)

14605

ALGEBRAIC CONNECTIONS – Semester 1

Pre-requisites: Geometry Concepts or Algebra I B or Algebra I (CB) (Grades 11 - 12)

FEE: None

This course includes topics from many real-life areas in which mathematics is applied such as science, business, economics, medicine, statistics, and consumerism. It places these topics in an algebra-based setting. (270403)

14605

ALGEBRAIC CONNECTIONS –Semester 2

Pre-requisites: Algebraic Connections –Semester 1

FEE: None
(Grades 11-12)

This second semester course continues the exploration of topics required in the course of study and begun in the first semester. The course is heavily based on algebraic concepts. (270403)

14417

GEOMETRY (CB) –Semester 1

Pre-requisites: Algebra I CB

FEE: None
(Grades 9 - 12)

Exploratory development of concepts, properties, and relationships of two-and three-dimensional figures and developing an understanding of axiomatic systems are integral parts of this course. (270408)

14417

GEOMETRY (CB)–Semester 2

Pre-requisites: Geometry –Semester 1

FEE: None
(Grades 9 - 12)

This course continues to build on the concepts studied in Geometry–Semester 1 to meet requirements of the state course of study. (270408)

14443

HONORS GEOMETRY–Semester 1

Freshman Center campus only

Pre-requisites: Algebra I (85 average)

FEE: None

(Grades 9-12)

A rigorous course, this class emphasizes higher order thinking skills by deducing properties of and relationships between figures from given assumptions as well as by exploring concepts related to two-and three-dimensional figures. Extensive integration of algebra in problem solving requires a strong algebra background for this course. Topics include logic, proof, parallel lines, congruent triangles, quadrilaterals, regular polygons, and geometric transformations. (270408)

14443

HONORS GEOMETRY –Semester 2

Pre-requisites: Honors Geometry –Semester 1

FEE: None

(Grades 9 - 12)

This class continues and builds on the concepts studied in Honors Geometry – Semester 1. Topics include similarity, area, volume, right triangles and their characteristics, and locus of points in two and three dimensions. (270408)

14513

ALGEBRA II WITHOUT TRIGONOMETRY-Semester 1

Pre-requisites: Algebra I B

FEE: None

(Grades 10-12)

Although this course does not fulfill requirements for the Advanced Academic Diploma, it contains all concepts (except Trigonometry) that are found in Algebra II with Trigonometry. (270405)

14513

ALGEBRA II WITHOUT TRIGONOMETRY – Semester 2

Pre-requisites: Algebra II without Trigonometry-Semester 1

FEE: None

(Grades 10-12)

Building on the foundation started in the first semester, this course includes the algebraic concepts necessary for success in higher-level mathematics courses. (270405)

14505

ALGEBRA II WITH TRIGONOMETRY –Semester 1

Pre-requisites: Algebra I CB

FEE: None

(Grades 10 - 12)

This course provides a more in-depth treatment of algebraic concepts presented in Algebra I CB while introducing several higher level topics. Trigonometric concepts are presented, and problem solving is integrated into all topics of this course. (270320)

14505**ALGEBRA II WITH TRIGONOMETRY –Semester 2****FEE: None**
(Grades 10 - 12)

Pre-requisites: Algebra II with Trigonometry Semester 1

This course continues to build on the concepts studied in Algebra II with Trigonometry Semester 1. (270320)

14541**HONORS ALGEBRA II WITH TRIGONOMETRY –Semester 1** **FEE: None**

Pre-requisites: Honors Geometry or Geometry (A Average) (Grades 10 - 12)

This course is a rigorous and higher order thinking skill presentation of algebraic and trigonometric concepts with problem solving emphasis. (270320)

14541**HONORS ALGEBRA II WITH TRIGONOMETRY –Semester 2** **FEE: None**

Pre-requisites: Honors Algebra II with Trigonometry –Semester 1 (Grades 10 - 12)

This course builds upon and continues the content studied in Honors Algebra II with Trigonometry –Semester 1. (270320)

14647**AP STATISTICS –Semester 1****FEE: None**Pre-requisites: “B” average in Algebra II; Teacher/Principal Approval for AP
(Grades 10-12)

The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Four broad themes are included: exploring data, planning a study, anticipating patterns and inferring results. (270425)

14647**AP STATISTICS –Semester 2****FEE: None**Pre-requisites: AP Statistics – Semester 1
(Grades 10-12)

Topics covered in this course are: planning and conducting surveys and experiments; producing models; probability and simulation; inferring statistical results using confidence intervals, tests of significance and special cases of normally distributed data. (270425)

14603**ALGEBRA III /STATISTICS– Semester 1****FEE: None**Pre-requisites: “C” average in Algebra II With Trigonometry
(Grades 11-12)

This course includes the following topics: system of equations and inequalities; matrices and determinants; radical, rational, polynomial and trigonometric functions

and their graphs. A survey of statistics is begun, introducing data analysis with measures of center and spread and graphical representation. (270412)

14603

ALGEBRA III/STATISTICS-Semester 2

Pre-requisites: Algebra II With Trigonometry

FEE: None
(Grades 11-12)

Topics of study include: collecting, organizing and analyzing data; probability and basic inference. (270412)

14611

PRE-CALCULUS WITH TRIGONOMETRY-Semester 1

Pre-requisites: Algebra II With Trigonometry

FEE: None
(Grades 11-12)

Functions, theory of equations, limits and polar functions are among the topics studied in this course. Graphing and problem solving are important components also. (270350)

14611

PRE-CALCULUS WITH TRIGONOMETRY-Semester 2

Pre-requisites: Pre-Calculus With Trigonometry-Semester 1

FEE: None
(Grades 11-12)

Continuing the pace set in the first semester, this course includes the trigonometric functions necessary to establish the base for the future study of Calculus.(270350)

14641

HONORS PRE-CALCULUS – Semester 1

Pre-requisites: “C” average in Honors Algebra II with Trigonometry

FEE: None
(Grades 11- 12)

Reasoning skills and connections among topics are emphasized in this course. Functions, trigonometry, theory of equations, limits, polar functions, and probability and statistics are among topics covered. Graphing and problem solving are vital to understanding in this course. (270350)

14641

HONORS PRE-CALCULUS - Semester 2

Pre-requisites: “C” average in Honors Pre-Calculus Semester 1

FEE: None
(Grades 11 - 12)

Topics continue from first semester pre-calculus with extensive use of the graphing calculator. Topics covered include: sequences and series, graph theory and discrete mathematics, limits, derivatives, and integrals. **SPECIAL NOTE:** Students

completing this course may take either Calculus AB or BC depending upon their achievement level and the demand. (270350)

14741

AP CALCULUS AB –Semester 1

Pre-requisites: Teacher/Principal Approval

FEE: None
(Grade 12)

In this course topics include: review and extension of limits, the derivative and integral. There is also a continued study of elementary differential and integral calculus. Applications of the derivative and the integral are studied. It is an Advanced Placement course and follows the College Board Syllabus. (270420)

14741

AP CALCULUS AB –Semester 2

Pre-requisites: “C” average in Calculus AB- Semester 1

FEE: None
(Grade 12)

Topics studied this semester include applications of the integral particular area and volume and length of arc. Derivatives and integrals involving trigonometric functions and their inverses, integration by parts, derivatives and integrals involving natural logarithmic and natural exponential functions, and La Hospital's rule are all included. Completion of this course and satisfactory performance on the AP examination will allow the student to enter second semester Calculus in college. (270420)

14743

AP CALCULUS BC –Semester 1

Pre-requisites: Teacher/Principal Approval

FEE: None
(Grade 12)

Studied during this semester are all of the topics listed above for both semesters of Calculus AB. It is an Advanced Placement course. (270420)

14743

AP CALCULUS BC –Semester 2

Pre-requisites: “C” average in Calculus BC –Semester 1

FEE: None
(Grade 12)

These advanced mathematical topics are included in this course: sequences and series; differential equations, advanced techniques of integration; improper integrals; Taylor's Polynomials and McLaurin Series; polar coordinates and vectors; parametric equations and conic sections. Completion of this course and satisfactory performance on the AP examination will allow the student to enter third semester Calculus in college. This course follows the College Board Syllabus. (270420)

MISCELLANEOUS

37401

COMMUNITY SERVICE

½ Unit

FEE: None
(Grades 10-12)

Pre-requisites: None

An innovative program designed to encourage students to become personally involved in their community, this course requires that each student enrolled develop, with the coordinator's help, a service project that requires at least 75 clock hours. (990150)

32501

DRIVER EDUCATION

½ Unit

FEE: \$30.00
(Grades 9-12)

Pre-requisites: 9th graders must have Driver Education Permit

Included in this course are two major experiences leading to driving competence: classroom work and on-the-road driving. This includes 30 hours of classwork and 6 hours of driving time. To ensure that driving time is not compromised, there is no written examination at the end of the semester.

Driver education instructors at Florence High School are certified Third-Party testing agents with the Alabama Department of Transportation. A student with a learner's permit is eligible to be road tested for full licensure during this class.(340151)

32609

DRIVER EDUCATION ASSISTANT

No Credit

FEE: None

Pre-requisites: Driver Education; Driver's License; Teacher/Principal Approval
(Grades 11-12)

In this course the student will acquire additional skills in driving, in working with peers, and in various leadership roles. He will make these acquisitions by assisting the instructors in such things as: classroom work, simulator and range activities, and maintenance of vehicles. (990150)

13501

HEALTH

½ Unit

FEE: None
(Grade 10-12)

Pre-requisites: None

Required of all students, this course is designed to help each student to be physically fit, well nourished and mentally healthy. Emphasis is on self awareness for developing personal skills toward health improvement and for accepting responsibility to increase one's quality of life. The ½ unit in health is embedded in Family Wellness or Introduction to Medical Careers. CPR certification is required to complete this class. *Successful completion of Family Wellness (one semester) or Introduction to Medical Careers (two semesters) substitutes for this course.* (340131)

37403

LEADERSHIP CLASS

½ Unit

FEE: None

Pre-requisites: Elected or appointed student leaders

(Grades 9-12)

The purpose of this course is to train student leaders in the various aspects of leadership such as parliamentary procedures, techniques of planning and organizing events, etc. Class time is provided for performance of tasks associated with the office to which each has been selected. (990150)

11415

LIBRARY SCIENCE

FEE: None

Pre-requisites: Prior Approval of Librarian

(Grades 9-12)

A select group of students will be trained to use the computerized circulation/catalogue system and other technologies available in the library. They will gather and shelve materials for teachers and students, run errands for the library staff, assist all patrons with the use of equipment, and help maintain the order of the overall collection. (250111)

15401

PHYSICAL EDUCATION

FEE: None

Pre-requisites: None

(Grades 9-12)

Although only one unit of Physical education is required for graduation, students are strongly encouraged to select this course as an elective. With national emphasis on wellness and physical fitness, students need to consider their physical development as well as their academic development. (340114)

15411

PHYS.ED./STRENGTH & CONDITIONING

FEE: None

Pre-requisites: None

(Grades 9-12)

In this Strength and Conditioning class, students practice the basic skills in strength and muscle conditioning. A primary goal is to teach students the value of lifetime fitness. (340114)

15413

PHYS.ED./ADVANCED WEIGHT TRAINING

FEE: None

Pre-requisites: Approval by Athletic Director

(Grades 10-12)

This course focuses on strength and muscle conditioning, with emphasis on intensive physical training. (340114)

15415

ATHLETICS

Pre-requisites: None

FEE: None
(Grades 9-12)

This is an umbrella course that includes participation on any competitive athletic team. Credit is awarded for this course only if the sport has a class period devoted to it during the school day.

15509

PHYSICAL EDUCATION ASSISTANT No Credit

Pre-requisites: Teacher/Principal Approval

FEE: None
(Grades 10-12)

A select group of students will be trained to prepare necessary materials and to help with office management. These students will be responsible for filing, for preparing special materials, for maintaining office and locker rooms and for assisting teachers in various ways. This cannot be taken as a substitute for required physical education. (990150)

21413

ACADEMIC SUPPORT

Pre-requisites: None

FEE: None
(Grades 9-12)

This course is designed to provide academic support for students who meet federal guidelines for receiving special education services and are working toward a Standard Diploma or AOD. It also assists students in attaining skills necessary for successfully completing the Alabama High School Graduation Examination. (651609)

37519

OFFICE ASSISTANT (ATTENDANCE) No Credit

Pre-requisites: Approval by Administrator

FEE: None
(Grades 10-12)

A small group of specially selected students will aid the Assistant Principal in gathering materials, answering the telephone, filing and inventorying data, and performing other duties as directed. (990150)

37529

OFFICE ASSISTANT (GUIDANCE) No Credit

Pre-requisites: Approval by Counselor

FEE: None
(Grades 10-12)

A small group of specially selected students will aid the Guidance Counselors in gathering materials, answering the telephone, filing and inventorying data, and performing other duties as directed. (990150)

37539

OFFICE ASSISTANT (PRINCIPAL) No Credit

FEE: None

Pre-requisites: Approval by Administrator

(Grades 10-12)

A small group of specially selected students will aid the Principal in gathering materials, answering the telephone, filing and inventorying data, and performing other duties as directed. (990150)

27615 (one hour), 27625 (two hours), 27635 (three hours)

CAREER EXPERIENCE Up to 3 Units

FEE: None

Pre-requisites: Current job and approval by parents and transition skills teacher

(Grades 11-12)

This course is designed to provide students with the opportunity to work at an off-campus site. It is an elective for students with an IEP. (990150)

28401

TRANSITION SKILLS – Semester 1

FEE: None

Pre-requisites: None

(Grades 9-12)

This course is designed to provide instruction in the areas of career decision-making, job-seeking skills and work maturity skills. It is an elective course only for students who have an IEP. (651610)

28401

TRANSITION SKILLS – Semester 2

FEE: None

Pre-requisites: None

(Grades 9-12)

Continuing the study begun the first semester in this course, students are provided instruction in the areas of career decision-making, job-seeking skills and work maturity skills. It is an elective course only for students who have an IEP. (651610)

MUSIC

35401, 35501, 35601, 35701

BAND – Semester 1

Pre-requisites: Approval by Band Director

FEE: \$15.00
(Grades 9-12)

This class meets one period each day and two days per week after school hours as called by the band director. Students participate in all aspect of band performance, including marching in parades and at athletic events. (500912, 500914, 500916, 500918)

35401, 35501, 35601, 35701

BAND – Semester 2

Pre-requisites: Approval by Band Director

FEE: \$15.00
(Grades 9-12)

During the spring semester, the focus is on formal concerts. Students learn all aspects of performing as musicians on stage. (500912, 500914, 500916, 500918)

35403

INSTRUMENTAL TECHNIQUES

Pre-requisites: Approval by Instructor

FEE: None
(Grades 9 - 12)

This course consists of the study of the techniques of playing musical instruments. It incorporates private instruction and independent practice to give the student advanced ability on his/her instrument. (500914)

35405, 35505, 35605, 35705

MIXED CHORUS

Pre-requisites: None

FEE: \$10.00
(Grades 9 - 12)

A non-auditioned group of mixed voices (male and female), this group practices one class period per day and participates in concerts, festivals and other programs throughout the year. Students are eligible to audition for select ensemble, show choir, All-State Chorus, and Quad-Cities Chorus. (500937, 500939, 500941, 500943)

11416

MUSICAL THEATRE PERFORMANCE – Semester 1

Pre-requisites: Currently enrolled in Chorus or Theatre or Teacher Approval

FEE: \$10.00
(Grades 9-12)

This course includes the study of scene analysis, musical and dramatic rehearsal techniques, and audition preparation using materials from the musical theatre repertory. Works are viewed and performed (performance is required) from a variety

of styles including musicals, rock opera, musical comedy, comic opera, operetta and vaudeville. (500941)

11416

MUSICAL THEATRE PERFORMANCE – Semester 2

FEE: \$10.00

Pre-requisites: Musical Theatre Performance – Semester 1 or Teacher Approval
(Grades 9-12)

As students become more proficient, they test and explore the wide variety of styles included under the umbrella of musical theatre. Both musical and dramatic techniques involved in staging a performance in this medium are emphasized. Performance is required. (500941)

35419

MUSIC ASSISTANT (CHORAL)

No Credit

FEE: None

Pre-requisites: Approval by Instructor
(Grades 10-12)

A small group of specially selected students will aid the Choral Music Department in gathering materials, setting up laboratories, filing and inventorying supplies, and performing other duties as directed by the teacher. (990150)

35409

MUSIC ASSISTANT (INSTRUMENTAL)

No Credit

FEE: None

Pre-requisites: Approval by Instructor
(Grades 10-12)

A small group of specially selected students will aid the Band program in gathering materials, setting up laboratories, filing and inventorying supplies, and performing other duties as directed by the teacher. (990150)

35413

STRING ORCHESTRA-Semester 1

FEE: \$20.00

Pre-requisites: None
(Grades 9-12)

The Strings program is open to students in all grades. It includes instruction in violin, viola, cello and bass. The goal is to create a full orchestra in Florence City Schools. (500912)

35413

STRING ORCHESTRA-Semester 2

FEE: \$20.00

Pre-requisites: None
(Grades 9-12)

Continuing the instruction begun the first semester, this course builds on the skills learned and challenges the student to higher levels of musical accomplishment. (500912)

SCIENCE

In grades 9-12, the Science curriculum is comprehensive in scope, offering courses in Life Science, Physical Science and Earth/Space Science. All courses meet or exceed the standards prescribed in the statewide Science Course of Study.

Students may choose either of these sequences to help them earn their choice of an Academic or an Advanced Academic diploma. All students must earn four units in Science for graduation.

1. Sequence I:
Biology;
Physical Science; plus two additional science courses

OR

2. Sequence II:
Honors Biology;
Chemistry; plus two additional advanced-level science courses

NOTE: The designation LS (Life Science) or PS (Physical Science) appears at the end of each course description.

16403

PHYSICAL SCIENCE – Semester 1

Pre-requisites: Algebra I (completed or in progress)

FEE: None

(Grades 10-12)

This course focuses on properties, classification, and the structure of matter. It also includes the study of the periodic law, chemical bonding and chemical reactions. Practical application of concepts will be reinforced through laboratory techniques. This course meets the Advanced Academic Diploma requirement. **(PS)** (400121)

16403

PHYSICAL SCIENCE – Semester 2

Pre-requisites: Physical Science (CB) – Semester 1

FEE: None

(Grades 10-12)

This course centers around motion, force, mechanical and electrical energy. It also includes the study of electromagnetism, waves (light and sound), and a section on scientific technology. Practical application of these concepts is reinforced through laboratory experiences. This course meets the Advanced Academic Diploma requirement. **(PS)** (400121)

16411

BIOLOGY - Semester 1

Pre-requisites: None

FEE: None

(Grade 9)

This course provides a survey of the biological sciences. Special emphasis is placed on these areas: laboratory measurement and technique, cellular processes including some molecular biology, the processes of photosynthesis and respiration, DNA and genetics. **(LS)** (260141)

16411

BIOLOGY - Semester 2

Pre-requisites: Biology (CB) - Semester 1

FEE: None

(Grade 9)

This course offers a detailed study of the classification of organisms; ecology and the transfer of energy through ecosystems; animal classification and physiology of invertebrates and vertebrates; and classification, structure and function, and life cycles of plants. Time is provided for dissections, experiments, presentations and demonstrations. **(LS)** (260141)

16441

HONORS BIOLOGY – Semester 1

Pre-requisites: Recommendation by 8th grade Science Teacher

FEE: None

(Grade 9)

This academically challenging course includes an in-depth study of the biological sciences. Topics of study include: laboratory measurement and technique, cellular structure and function, molecular biology, the processes of photosynthesis and cellular respiration, DNA and genetics. This course meets the Advanced Academic requirement. **(LS)** (260143)

16441

HONORS BIOLOGY – Semester 2

Pre-requisites: Honors Biology – Semester 1

FEE: None

(Grade 9)

Continuing the challenging pace set the first semester, this course includes detailed study of the six kingdoms of living organisms and the flow of energy through ecosystems. Dissections, experiments and demonstrations make this course an exciting one for the advanced science student. **(LS)** (260143)

16641

ADVANCED PLACEMENT BIOLOGY – Semester 1

Pre-requisites: Teacher/Principal Approval

FEE: None

(Grades 11 - 12)

This college-level course includes an advanced study of the biochemical processes of life and an in-depth study of molecular biology, cell physiology, genomics, genetics,

etc. Advanced laboratory experiments are an integral part of this course and may require additional time outside the allotted class period to complete. Some independent research is recommended and may also be required. For success in this course, a student should have completed Biology with a “B” average and Chemistry with a “C” average. (LS) (260142)

16641

ADVANCED PLACEMENT BIOLOGY –Semester 2

Pre-requisites: AP Biology –Semester 1

FEE: None
(Grades 11 - 12)

This is a continuation of advanced study in biology begun in the first semester. It includes detailed lectures and laboratory experiments related to the diversity, phylogeny and physiology of organisms and their ecological roles. Laboratory experiments include advanced dissections. (LS) (260142)

16501

ECOLOGY – Semester 1

Pre-requisites: Biology

FEE: None
(Grades 10 - 12)

In this course, the flow of matter and energy in the food web is studied. Eco-systems, communities and populations are defined and discussed. Practical applications are done periodically to reinforce the topics. This course is for the Academic track only. (LS) (260614)

16501

ECOLOGY – Semester 2

Pre-requisites: Ecology – Semester 1

FEE: None
(Grades 10-12)

Various environmental systems of the world are examined, with the goal of helping students understand their role within those systems. Emphasis is placed on comparing and contrasting the various energy resources and how their impact on the human population. Practical applications are done periodically to reinforce topics covered. This course is for the Academic track only. (260614)

16506

ZOOLOGY

½ Unit

Pre-requisites: None

FEE: None
(Grades 10-12)

Zoology is the study of animals, including taxonomy, body plans, symmetry, and behavior. The course includes a review of biology concepts such as cells, genetics, ecology, and evolution. This course is for the academic track only. (260711)

16504

BOTANY

½ Unit

FEE: None

Pre-requisites: None

(Grades 10-12)

Botany is the study of plants and their role in the world's ecosystem. Also included are the principles of plant structure and function, with selected topics on plant diversity, plant adaptations, and the interrelationships between plants and people. This course is for the academic track only. (260311)

16502

HUMAN PHYSIOLOGY -Semester 1

FEE: None

Pre-requisites: Biology

(Grades 10-12)

This course surveys the organ systems of the human body, including their structure, organization and functions in carrying out life activities. This course meets the Advanced Academic Diploma requirement. (LS) (260751)

16502

HUMAN PHYSIOLOGY -Semester 2

FEE: None

Pre-requisites: Human Physiology -Semester 1

(Grades 10-12)

Continuing the in-depth study begun the first semester, this course focuses on functions, structures, systems and organizations that comprise the human body. This course meets the Advanced Academic Diploma requirement. (LS) (260751)

16505

CHEMISTRY– Semester 1

FEE: None

Pre-requisites: Physical Science or Biology); Algebra II (Completed or in progress) or teacher approval

(Grades 10 - 12)

This course emphasizes such topics as metric measurement and dimensional analysis; matter and energy; physical, chemical, and nuclear changes; chemical elements and symbols; atomic structure; mole calculations; chemical formulas; types of reactions; writing and balancing equations; stoichiometry; and the quantum model of the atom. Practical application of chemical concepts are reinforced through laboratory techniques. (PS) (400521)

16505

CHEMISTRY– Semester 2

FEE: None

Pre-requisites: Chemistry - Semester 1

(Grades 10 - 12)

This course emphasizes such topics as periodic law and trends, chemical bonding, phases of matter, kinetic theory and the gas laws, solutions, ionization, acids, bases, and salts. If time permits these additional topics are covered: Reaction Rate, Equilibrium, Redox Reactions, Organic Chemistry, Nuclear Chemistry, and

Electrochemistry. Practical application of chemical topics is reinforced through laboratory techniques. (PS) (400521)

16513

ASTRONOMY

½ Unit

FEE: None

Pre-requisites: Successful completion of Physical Science Core

(Grades 11-12)

The oldest of all sciences, Astronomy is the study of the universe outside of earth's atmosphere and the earth's role in the universe. This one-semester course, open to students on both the Academic and Advanced Academic Diplomas, is a study of the perspectives of the universe from Earth including planets, stars, galaxies, quasars, and black holes. (PS) (400629)

16515

METEOROLOGY

½ Unit

FEE: None

Pre-requisites: Successful completion of Physical Science Core

(Grades 11-12)

This one-semester course, open to students on both the Academic and Advanced Academic Diplomas, examines the atmosphere and its phenomena with emphasis on heat, moisture and wind and how these elements affect storm systems, weather patterns, and climates. (PS) (400629)

16741

ADVANCED PLACEMENT CHEMISTRY –Semester 1

FEE: None

Pre-requisites: Teacher/Principal Approval; Pre-Calculus (completed or in progress)

(Grade 12)

This course is available only through dual enrollment at a local college/university or on-line on the high school campus; therefore, the student is expected to be highly self-motivated and to have the ability to work independently. (PS) (400522)

16741

ADVANCED PLACEMENT CHEMISTRY –Semester 2

FEE: None

Pre-requisites: AP Chemistry –Semester 1

(Grade 12)

Continuing work begun in AP Chemistry-Semester 1, the student commutes daily to a local college/university or works on-line on the high school campus. Successful completion of this course enables the student to take the AP Chemistry examination at the end of the school year. (PS) (400522)

16511

EARTH SCIENCE–Semester 1

FEE: None

Pre-requisites: Completed or currently enrolled in Physical Science or Chemistry or Physics

(Grades 11 – 12)

In this course students survey the structure of Earth and the dynamic processes that have shaped and continue to shape its structure. The main focus of this course is on the formation of rocks and minerals, weathering, erosion, deposition and the ways that these elements shape our planet externally. Practical application of these concepts is reinforced through laboratory experiments. (400616)

16511

EARTH SCIENCE–Semester 2

Pre-requisites: Earth Science -Semester 1

FEE: None
(Grades 11-12)

Continuing the in-depth study begun the first semester, this course focuses on the internal structure of the earth and the internal processes that shape the surface. The main focus is on plate tectonics, volcanism, mountain building, earthquakes, and the earth's oceans. Special topics in meteorology as they relate to the shaping of the earth's surface are included. Practical application of these concepts is reinforced through laboratory experiments. (400616)

16605

PHYSICS - Semester 1

Pre-requisites: Physical Science or Chemistry; Algebra II

FEE: None
(Grades 11-12)

This course takes the student through a study of mechanics. Topics include dimensional analysis, vectors, friction, torques, graphical analysis of motion, two dimensional motion and projectile motion, Newton's laws of motion, momentum, work, power, potential and kinetic energy. (PS) (400821)

16605

PHYSICS– Semester 2

Pre-requisites: Physics–Semester 1
11-12)

FEE: None
(Grades

In this course students study topics such as the difference between heat and temperature through heat exchange; wave behavior in terms of reflection, refraction, diffraction, constructive and destructive interference, and the Doppler effect; sound; light and its properties; image formation by mirrors and lenses; electrical forces; and series and parallel DC circuits. (PS) (400821)

26407

LSS I: PHYSICAL SCIENCE

Pre-requisites: None

FEE: None
(Grades 9-12)

This course is designed to provide students with a practical knowledge of physical science including scientific process and applications skills; the periodic table; solutions; bonding; chemical formulas; physical and chemical changes; gravitational,

electromagnetic, and nuclear forces; motion; energy; energy transformation; electricity and magnetism; nuclear science; and metric units.(654101)

26507

LSS II: BIOLOGY

Pre-requisites: None

FEE: None
(Grades 9-12)

This course is designed to provide students with a practical knowledge of biology including scientific process and application skills, cell processes, cell theory, photosynthesis and cellular respiration, genetics, classification, plants, animals, ecology, and biogeochemical cycles. (654102)

26607

LSS III: EARTH AND SPACE SCIENCE

Pre-requisites: None

FEE: None
(Grades 9-12)

This course is designed to provide students with a practical knowledge of earth and space science including scientific process and application skills; energy in the Earth system; weather; seasons; theories for origin and age of the universe; stars, pulsars, quasars, black holes, and galaxies; earth and space scientists; and space exploration. (654103)

26707

LSS IV: ENV. SCIENCE (Ecology) or HUMAN ANATOMY/PHYSIOLOGY

Pre-requisites: None

FEE: None
(Grades 9-12)

This course is designed to provide students with a practical knowledge of environmental science or human anatomy/physiology, including scientific process and applications skills. (654204)

SOCIAL SCIENCE

The Social Science curriculum in grades 9-12 is all-inclusive, with courses as varied as American history and Psychology. Great care is taken to assure that all courses meet or exceed the standards prescribed in the State Course of Study for Social Science.

Depending on the student's choice of the Academic or Advanced Academic diploma, he/she may select one of these sequences:

1. Sequence 1:
 - World History Since 1500 (G)
 - American History to 1877 (G)
 - American History Since 1877 (G)
 - American Government/Economics

2. Sequence 2:
 - World History Since 1500 (CB)
 - American History to 1877 (CB)
 - American History Since 1877 (CB)
 - American Government/Economics

3. Sequence 3:
 - Honors World History Since 1500
 - Honors American History to 1877
 - AP American History
 - AP American Government/AP Economics

Psychology (1/2 unit) and Sociology (1/2 unit) are electives.

17601

PSYCHOLOGY

½ Unit

FEE: None
(Grades 11 - 12)

Pre-requisites: None

Psychology, a challenging and fascinating study of human behavior, asks the students to exchange ideas as well as explore material in books, in periodicals and on audio-visual tapes. They learn to help each other understand themselves as well as other people. Personality, mental health, emotions, and self-image are only a few of the topics explored. The objective is to help young people become well-adjusted adults. (420111)

17602

SOCIOLOGY

½ Unit

FEE: None
(Grades 11 - 12)

Pre-requisites: None

This course centers around a study of world cultures. Students study the similarities and differences among the people of the world - ranging from primitive tribes to

complex societies. A study of sub-cultures in the United States is also included in this unit. Studies of the American family, along with current social problems, help students become interested in the complex problems of the American society. (451121)

17513

AMERICAN HISTORY TO 1877 -Semester 1

Pre-requisites: None

FEE: None
(Grade 10)

Beginning in 15th century Europe, this course emphasizes the establishment of the Nation, the Federalist and Jeffersonian periods and the westward movement. Concepts included in the AHSGE are emphasized. A continuing study of geography skills and an understanding of Alabama history are included. It is a required course. (450820)

17513

AMERICAN HISTORY TO 1877 -Semester 2

Pre-requisites: American History to 1877-Semester 1

FEE: None
(Grade 10)

Nineteenth-century America is the focus of this semester. These aspects of that century are studied: Expansion and Slavery, Civil War and Reconstruction, the West, Big Business, and Imperialism. Concepts included in the AHSGE are emphasized. It is a required course. (450820)

17541

HONORS AMERICAN HISTORY TO 1877-Semester 1

Pre-requisites: Approval by Teacher/Principal

FEE: None
(Grade 10)

This course analyzes the establishment of representative democracy in the United States and focuses on critical issues and events that encompass historic, geographic, economic and political literacy. It prepares students for college work by making demands upon them equivalent to those made by full-year introductory college courses. Geographic concepts are also included. Historical writing skills are emphasized. (450820)

17541

HONORS AMERICAN HISTORY TO 1877-Semester 2

Pre-requisites: Honors American History to 1877-Semester 1

FEE: None
(Grade 10)

This chronological study of United States history integrates the disciplines of history, geography, economics and government with American literature to interpret past events and present conditions. Historical writing skills are emphasized as students learn to assess historical materials and their relevance to a given interpretive problem while weighing the evidence and interpretations presented in historical scholarship. (450820)

17641

ADVANCED PLACEMENT AMERICAN HISTORY –Semester 1 **FEE: None**
Pre-requisites: Teacher/Principal Approval; Passage of Social Studies Subtest of
AHSGE) (Grade 11)

This college-level course is taken by a select group of juniors in lieu of the regular American history course. The course is designed for the student to learn to comprehend American history in an analytical rather than purely factual manner. Students learn to interpret and synthesize primary sources, including documentary material, maps, statistical tables, and graphs. Students take notes from printed material and lectures, write essay examinations, and research topical papers. (450814)

17641

ADVANCED PLACEMENT AMERICAN HISTORY –Semester 2 **FEE: None**
Pre-requisites: AP American History –Semester 1 (Grade 11)

Continuing the pace set in the first semester, this rigorous approach to the study of American history affords the talented student the opportunity to go well beyond the usual high school course. Students are encouraged to take the Advanced Placement Examination in American history at the end of this course. (450814)

17742

ADVANCED PLACEMENT ECONOMICS $\frac{1}{2}$ Unit **FEE: None**
Pre-requisites: Teacher/Principal Approval (Grade 12)

The purpose of the course is to give the student a thorough understanding of the principles of economics which apply to individual units in the economy that determine the relative price of goods and inputs. It places primary emphasis on the nature and functions of product markets and the role of government in promoting greater efficiency and equality in the economy. (450606)

17741

ADVANCED PLACEMENT AMERICAN GOVERNMENT $\frac{1}{2}$ Unit **FEE: None**
Pre-requisites: Teacher/Principal Approval (Grade 12)

This is a one-semester college-level course concerned with the American governmental system as it has developed and as it works today. It examines the principal processes and institutions through which the political system functions. The goal of the course is to increase understanding of the American political system--its traditions, values and framework. There is strong emphasis in developing analytical thinking skills. (451008)

17407

WORLD HISTORY /GEOGRAPHY–Semester 1

Pre-requisites: None

FEE: None
(Grade 9)

Beginning with world events which occurred during the Renaissance, this course includes political and economic revolutions, the rise of nationalism and the worldwide impact of dictatorships. A study of map and globe skills is also incorporated. (450809)

17407

WORLD HISTORY/GEOGRAPHY–Semester 2

Pre-requisites: World History/Geography –Semester 1

FEE:None
(Grade 9)

World War I and its aftermath serve as the initial focus during this semester. The nature of various cultures throughout the world from 1920 to the present, along with further emphasis on map and globe skills, completes the study. (450809)

17441

HONORS WORLD HISTORY/GEOGRAPHY – Semester 1

Pre-requisites: Teacher/Principal Approval

FEE: None
(Grade 9)

Taught according to standards set forth for this course by the College Board, it takes the student into an advanced-level study of World History and World Geography. (450809)

17441

HONORS WORLD HISTORY/GEOGRAPHY –Semester 2

Pre-requisites: Honors World History/Geography – Semester 1

FEE: None
(Grade 9)

Continuing the rigorous study begun the first semester, this course includes an in-depth look at both history and geography of the world. (450809)

17605

AMERICAN HISTORY SINCE 1877-Semester 1

Pre-requisites: None

FEE: None
(Grade 11)

Starting in 1877, this course emphasizes industrial development, urbanization, labor and agrarian movements, the progressive era, imperialism and World War I. A continuing study of map and globe skills is interwoven throughout. Concepts included in the AHSGE are emphasized. (450821)

17605

AMERICAN HISTORY SINCE 1877-Semester 2

FEE: None

Pre-requisites: American History Since 1877-Semester 1

(Grade 11)

Among the topics included in this semester course are: the Great Depression, the New Deal, World War II, Post-War Challenges, the Civil Rights Movement, and the Cold War. It is a required course. Concepts included in the AHSGE are emphasized. (450821)

17701

AMERICAN GOVERNMENT

1/2 Unit

FEE: None

Pre-requisites: None

(Grade 12)

This one-semester course, taken in conjunction with Economics, offers a study of the organization, basic principles, functions, and purposes of government in the United States. Emphasis is on the federal system, the legislative process, the executive function, the role of the judiciary and the responsibilities of the citizen in a free society. It is a required course. (451004)

17702

ECONOMICS

1/2 Unit

FEE: None

Pre-requisites: None

(Grade 12)

This one-semester course, taken in conjunction with American Government, is designed to help students master the fundamental economic concepts and terms and appreciate the relationship among them. Students also learn the structure of economic systems, the role of government in the U.S. economy and consumer skills for their own decision making. (450602)

27407

SSL I: WORLD HISTORY

FEE: None

Pre-requisites: None

(Grade 9)

This course is a study of world history from 1500 to the present. Students are able to apply and utilize their knowledge to develop informed opinions about issues such as the quest for peace, human rights, trade, global ecology and the impact each has on everyday life situations. (655205)

27507

SSL II: U. S. HISTORY TO 1877

FEE: None

Pre-requisites: None

(Grade 10)

This course follows a chronological study of major events, issues, movements, leaders, and groups of people of the United States through Reconstruction from a national and Alabama perspective. (655206)

27607

SSL III: U. S. HISTORY SINCE 1877

Pre-requisites: None

FEE: None
(Grade 11)

This course begins with the post-Reconstruction United States and its shift into a more industrialized society and continues through the twentieth century to the present. (655207)

27708

SSL IV: ECONOMICS

Pre-requisites: None

½ Unit

FEE: None
(Grade 12)

This is a one-semester course that focuses on the functions and institutions of modern-day economic systems and theory. Students gain skills that will enable them to anticipate changes in economic conditions and to adjust to the changes that will improve their lives and their communities. (655208)

27707

SSL IV: U. S. GOVERNMENT

Pre-requisites: None

½ Unit

FEE: None
(Grade 12)

This a one-semester course focuses on the origins, structure, and functions of government at all levels. It also includes a detailed study of the Constitution of the United States and its provisions. (655209)

CREDIT PLANNING/CHECK SHEET

Name _____ Diploma Type _____

Year Entered Grade 9 _____

Required	9th Sem 1	9th Sem 2	10th Sem 1	10th Sem 2	11th Sem 1	11th Sem 2	12th Sem 1	12th Sem 2
English 4 credits	<u>English</u>	<u>English</u>	<u>English</u>	<u>English</u>	<u>English</u>	<u>English</u>	<u>English</u>	<u>English</u>
Math 4 credits								
Science 4 credits								
Social Studies 4 credits	<u>World History</u>	<u>World History</u>	<u>American History</u>	<u>American History</u>	<u>American History</u>	<u>American History</u>	<u>Govt/ Econ</u>	<u>Govt/ Econ</u>
Physical Education 1 credit								
Health ½ credit								
Foreign Language 2 credits								
Fine Arts ½ credit								
Computer Literacy ½ credit								
Electives								
TOTAL CREDITS								

Student Signature & Date		
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Parent Signature & Date		
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Conference Dates: