

FVHS
ELECTIVE
GUIDE



2017-2018

ENGLISH ELECTIVES



Creative Writing I/I (H) Creative Writing is designed for students who enjoy reading and writing, and are looking to learn the art behind the written word. Students will compose poetry and prose of varying lengths, as well as read a number of works for inspiration and as models of writing styles.

Paideia Eng I / I (H) Paideia is a team taught class where an English teacher and History teacher share class time. The class is based on discussion, Socratic seminars, and relating literature and history to present-day, real world events and experiences. Group work, presentations, and essay writing are all regular components to the class. The class blends honors and average students.

Speech I and Speech I (H) This course, designed for the beginning and experienced speaker alike, helps all students excel as it cultivates a positive and supportive classroom environment in which students become comfortable in front of an audience of their peers, giving a wide variety of speeches, practicing the virtues of constructive criticism, and learning the fundamentals of academic and legislative debate

The Human Experience (H) Students will delve into various works of literature that investigate what it is to be human. Students will explore the world of the Ancient Greeks in addition to the modern philosophies of existentialism. Below are essential questions threaded throughout each unit of the course:

What is the good life? What is knowledge, truth, and fact? What is being and time?
What is the difference between perception and reality?

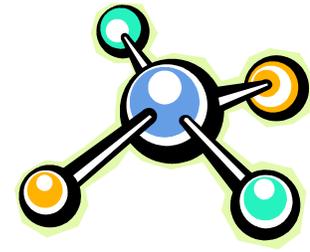
YEARBOOK I - The introductory yearbook course offers the student total involvement in the production of the school yearbook. Activities include advertising, layout planning, photography, copy writing, and proofing.

YEARBOOK II -The second-level yearbook course is designed to help students refine their skills in copywriting,

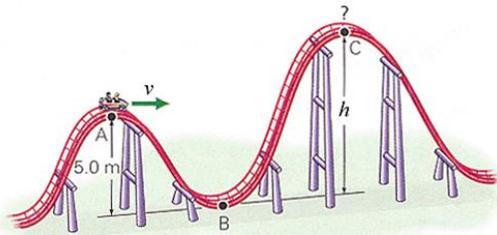
AFRICAN AMERICAN LITERATURE - This course explores African American writing and its relationship to American history and culture. Students study critical theories of African American literature and the contexts of cultural criticism through selected works by African American writers.

AFRICAN AMERICAN LITERATURE (HONORS) This literature-based course is intended for those students interested in a deep and extended exploration of African American writing and its relationship to American history and culture. Students can expect to study a survey of the African American experience, from colonial voices through urban fiction, poetry, and music lyrics. A deep study of critical theories and their application to African American literature uses a variety of African American sources as text for this course.

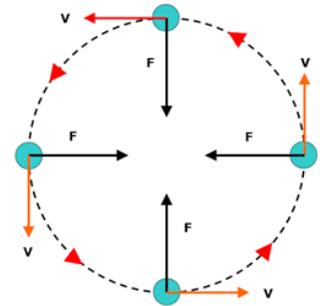
SCIENCE ELECTIVES



AP Physics 1



AP Physics 1 is an algebra-based, introductory college-level course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and simple circuits. Students will learn to apply science practices through hands-on, inquiry-based investigations that will help develop scientific critical thinking and reasoning skills. The students enrolled in the course should have completed



Honors Geometry and be concurrently taking Honors Common Core Math II or an equivalent course. As this is the honors level of physics, students are expected to be proficient in solving linear equations, working with ratios and proportions, and using basic trigonometry when they enroll in the course.

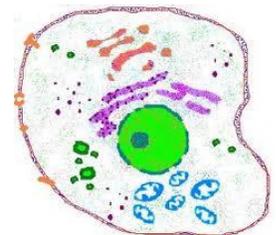
Forensic Science / Forensic Science (H)

Forensics is a science elective course that analyzes crime scene evidence using basic biology, chemistry, and physics concepts. Students interested in crime, science, and problem solving will enjoy this class. This class is laboratory driven with lots of evidence analysis and case studies of famous crimes.



Honors Molecular & Cellular Biology

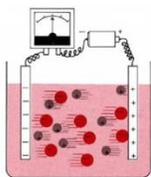
This is a college-level expansion on topics such as organic molecules, enzymes, cellular transport, cellular organelles, and the molecular basis of genetics (DNA). This class is only offered in the Fall Semester, and is a co-requisite of AP Biology for the Spring Semester. Students will receive 1 credit in Molecular Cell Biology (H) and 1 credit in AP Biology, as this is a yearlong course.



AP Biology

Students study the basic principles and concepts covered in a college-level introductory Biology course. Students are provided with in-depth laboratory experiences and are expected to take the College Board Advanced Placement Biology Test at the end of the semester. Students registering for AP Biology must also register for Honors Molecular and Cellular Biology. Pre-requisites include Honors Biology. Honors Chemistry is preferred but not required.

AP Chemistry



A second level chemistry course designed as the equivalent to a freshman college chemistry class. The topics of this class include thermodynamics, equilibrium, and kinetics. A score of 4 or 5 on the AP Test for this course can earn 8 college credits. A score of 3 can earn 4 college credits. This course is offered in one semester and is taken after completion of Honors Chemistry or Chemistry, ideally in the same school year.

AP Environmental Science

AP Environmental Science is a one-semester laboratory science course designed to be the equivalent of a one-semester introductory college course in environmental science. In this course, we will work towards preparing students to take the College Board AP Environmental Science Exam. This class meets daily for ninety minutes each day. A minimum of one day per week will be devoted to a hands-on laboratory experience or fieldwork. The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternate solutions for resolving and/or preventing them (College Board, Advanced Placement Program).



Marine Ecology



Marine ecology is a science elective course covering physical oceanography, marine ecosystems, marine animals and plants, ecological relationships, environmental protection of the ocean habitat, and marine research. This course includes several dissections, culminating with the shark dissection. Marine Ecology is a good starting place for anyone interested in a career in oceanography, marine biology, zoology, or fisheries. (Prerequisite: Biology)

Marine Ecology (Honors)

A college level science elective designed for the student who has had high achievement in previous science courses. Content and principles for Marine Ecology Honors are the same as Marine Ecology, however they are taught in greater depth and at a faster pace. This course includes several dissections, culminating with the shark dissection. Marine Ecology is a good starting place for anyone interested in a career in oceanography, marine biology, zoology, or fisheries. (Prerequisite: Biology)

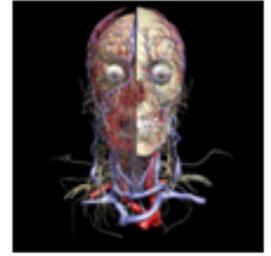


Anatomy & Physiology

This course is designed for students who are pursuing an Associates Degree or certificate in the medical field. Anatomy & Physiology is a course that will provide an overview of each of the human body systems. Dissections include a chicken wing, heart, brain, eye ball, and fetal pig. This course will be useful for students interested in pursuing a career in sonography, radiology, and dental or medical assistant fields. Students should have earned a C or better in their prerequisite Biology course.

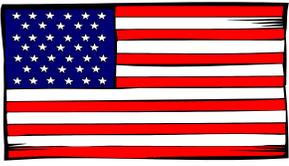
Anatomy & Physiology Honors

This course is designed for students who are pursuing a minimum of a 4-year degree. Honors Anatomy & Physiology is a college-level course that covers the various systems of the human body in great depth. Dissections include a chicken wing, heart, brain, eye ball, and fetal pig. This course will be useful for students interested in pursuing a career in the medical, veterinary, dentistry, nursing, physical therapy, or sports medicine fields. Students should have earned a B or better in their prerequisite Biology course.



ASTRONOMY - The underlying principles of life, earth, and physical science are integrated in this study of the universe. Historical astronomy, the solar system, comets, constellations, extraterrestrial life, and the evolution of stars are the major topics of study. Observational astronomy skills and critical thinking are fostered through the use of laboratory and field activities

Social Studies Electives



Contemporary Law and Justice (Academic or Honors)

The Constitution meets “Cops,” a possible cure for a “Law and Order” addiction; this class will provide students with a concentrated study of the legal/judicial systems of North Carolina and the United States. The focus will be on Constitutional law, criminal law, and civil law; including legal principles, procedures, law-enforcement methods, and court procedures. This is a very relevant course to events going on every day in the news. The class will utilize current event materials, guest speakers, and video materials.

AP Human Geography

Quite simply, AP Human Geography is the study of people from a spatial and ecological perspective. People are central to geography, as their activities and interaction with the physical environment help shape the Earth's surface. Human settlements and structure are part of that tapestry of interaction. It is in this setting that humans either compete for control of space and resources or work out systems of social, economic, and political cooperation. There are seven topics included in the course framework: Nature and Perspectives, Populations, Cultural Patterns and Process, Political Organization of Space, Agriculture and Rural Land Use, Industrialization and Economic Development, and Cities and Urban Land Use. The course teaches students how to use and interpret maps, data sets, and geographic models.

AP World History

AP World History is a challenging course that focuses on the interaction between diverse human societies primarily over the past one thousand years. The objective is for students to develop a greater sense of comparative understanding of the causes and effects of such interactions upon different classes of peoples in different areas. The course will focus heavily on Asia, Africa, Latin America, and the Middle East; however, Europe and North America will be explored. It will be presented chronologically over six time periods that students explore thematically. Rather than memorizing obscure facts, people, or events, the AP World History course emphasizes the development of historical thinking skills like interpretation, synthesis, contextualization, causation, historical argumentation, and use of historical evidence.

AP United States History

AP U.S. History is a chronological & thematic study of American history from pre-Columbian to present times through class discussion, cooperative learning, seminars, debates, films, primary source analysis, and a heavy emphasis on writing exercises. Students will be expected to integrate cultural, political, diplomatic, and economic history into the narrative of the American experience. Students will learn to form and express thoughtful and complex historical arguments. This is a year-long course in which you will fulfill the graduation requirements for American History I & II. Students who love American history and are willing to read, write, research, discuss and study this subject at the college-level should consider taking this course. This is a semester course.

AP Government and Politics

The AP American Government and Politics program is designed to teach American constitutional government based on the principles of our government, interpretation of original documents, political beliefs and behavior, political parties and interest groups, national institutions and policy processes, and law. This is a highly structured, very demanding, college-level course. Students are required not only to read the text, but also augment this material through research and supplemental articles and then critically apply the findings to the political nature of current governmental policies and analyze the ramification of these policies. One of the primary objectives of this course is to expose students to all areas of information covered on the AP exam. Thus, it is imperative that a high level academic environment exist and that the student is dedicated to learning, and is highly motivated and willing to put forth the time and effort required for a course of this intensity.

AP Psychology

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. For many of you, this will be your first experience with a social science course. You will be exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Specific topics of this course include social psychology, abnormal disorders and therapy, development, neurobiology, learning, thinking and language, sensation, perception, intelligence, personality, motivation and emotion. Students taking this course should expect a college-level work load including extensive reading, active involvement in class discussions, and conducting research.

AP European History

The focus of this course is from the Renaissance and the Reformation to the post-World War II era. Emphasis is on three main themes: (1) political and diplomatic developments, (2) intellectual and cultural continuity and change, and (3) economic and social developments. Substantial out-of-class reading, writing, and research are expected.

MATH ELECTIVES



Advanced Placement Statistics

The AP Statistics curriculum is divided into four major themes: exploratory analysis, planning a study, probability, and statistical inference. Statistics revolves around data – students in this course will learn how to collect data, represent data graphically, and analyze data. Statistics is a course that is required by most college majors; success in AP Statistics requires strong mathematical skills as well as the ability to write analytically. Calculators play an important role in this course – students should be competent with technology. The prerequisite course for Statistics is Math III.

Advanced Placement Calculus AB

Four major themes are developed throughout Calculus: limits, derivatives, indefinite integrals, and definite integrals. Each topic or concept taught is presented numerically, geometrically, symbolically, and verbally. Appropriate mathematical communication is a major goal of the course. Students are expected to explain problems using proper vocabulary and terminology. The graphing calculator is used to help students develop an intuitive feel for concepts before they are approached through typical algebraic techniques. The calculator is used to serve as an exploration tool and not as a substitute for knowledge. At times, calculators will not be allowed on assessments. The prerequisite course for AP Calculus is Precalculus Honors.

Advanced Placement Calculus BC

Calculus BC will continue to explore the four major themes of Calculus: limits, derivatives, indefinite integrals, and definite integrals. Polar and parametric Functions will be used. Sequences and Series will also be studied in detail. Appropriate mathematical communication is a major goal of the course. Calculators will be used throughout the course, but, calculators will not be allowed on all assessments or parts of the AP Test.

Physical Education



Electives

TEAM SPORTS I & II - The course objective is for students to perform team based activities while focusing on teamwork and sportsmanship. Students will participate in basketball, volleyball, soccer, hockey, handball, flag football, and softball.

WEIGHT TRAINING I, II, & III - The goal of weight training is to provide students with the opportunity to learn and develop muscular strength and endurance through a variety weight training exercises. Students will also learn how to safely develop various muscles/ muscle groups through a variety of weight training, exercises, and techniques.

PERSONAL FITNESS I & II - This class will help students realize the importance of leading a healthy lifestyle. Students will perform resistance training, cardiovascular training, and plyometrics. We, also we utilize popular programs such as P90x and Insanity. Heart Rate monitors allow us to monitor our students and their activity levels during class.

LIFETIME SPORTS I & II - This course focuses on individual activities such as bowling, archery, badminton, table tennis, tennis, Frisbee golf, golf and long toss games. This class allows students to take part in activities that can promote fitness throughout their lifetime.

PEPI I & PEPI II -(Physical Education Pupil Instructor) The PEPI program provides student the unique opportunity to teach elementary students different activities, as well as become mentors and role models. (11 &12 only). This is an application course.

SPORTS MEDICINE I, II, III (H), & IV(H) - These courses are designed to provide students with an understanding of the prevention, treatment, and rehabilitation of injuries occurring to athletes in an organized sports program as well as injuries occurring in lifelong sports and fitness activities. Students will gain knowledge in recognition of injuries, and through labs sessions, will have the opportunity to practice wrapping, taping, and other basic skills used in athletic training. Students will have the opportunity to observe evaluation, treatment and rehabilitation of actual injuries to Fuquay-Varina athletes while assisting with game and practice coverage. Sports Med I is an application course.

SPORTS MANAGEMENT/OFFICIATING This course is designed for students interested in learning and implementing the skills necessary to officiate individual and team sports. This course is valuable for students wishing to pursue potential officiating jobs in the fields of community recreation or youth sports. Opportunities for practical sports management skills (field/facility care, operations, public relations), as well as other community and school service activities are emphasized.

World Language Courses



Spanish I-This course covers personality, school, foods, free time activities, and family. After finishing the course, students will have mastered the present tense. A family tree project will be completed at the end of the course.

Spanish II - This course covers daily life, extracurricular activities, shopping, map/driving, childhood, and celebrations. Students will gain an understanding of the past tense at the surface level. Students will write a children's book in past tense as a culminating project/part of the final exam.

Spanish III - This course covers outdoor activities, the arts, health/exercise, relationships, and the workplace. Students will master the past tense, along with the subjunctive, imperative, and future models of language. Students watch a soap opera and read from various sources to work on listening/reading proficiency levels.

Spanish IV - This course covers literature of various Latin American authors. Students will be reinforced of all materials from levels I through III, and will also include mastery of the subjunctive mode. This class is conducted entirely in Spanish (95% or higher)

AP Spanish Language - This course covers authentic print and non-print sources of information. Students work in all areas of proficiency in order to attain an intermediate high level. Class is geared towards preparation for the AP Exam in May.

AP Spanish Literature - The AP Spanish Literature course is designed to provide students with a learning experience equivalent to that of a third-year college course in Peninsular and Latin American literature. The expansive reading list introduces students to the diverse literature written in Spanish and thus helps them reflect on many voices and cultures included in this very rich literature.

German I - This class covers vacations, animals, hobbies, restaurants, holidays, and other basic information. Students will gain a mastery in the present tense and accusative cases. Students will learn simple sentence structure and reading of simple passages for reading comprehension.

German II - This course covers school, weather, birthdays, household, and holidays. Students will gain a mastery in the past tense and all case structures. A review of Level I information is done at the start of

the semester. Students will learn simple sentence structure and reading of simple passages for reading comprehension.

German III Honors- This course covers fairy tales and numerous short stories in the German language. Students gain a master of the present and past tenses. Students study World War II in depth from the German perspective.

German IV Honors- This course centers around a novel read in class in the German language. Students study the practices, products, and perspectives of Berlin and the GDR (east Germany). Students finish the semester with a project in which they design a 2-week trip in the country, complete with a budget.

AP German Language - This course is designed to promote proficiency in German and will enable students to explore culture in contemporary and historical contexts. The course focuses on communication and teaches students skills and abilities in the various modes of communication.

French I - This course covers sports, weather, foods, hobbies, places, family, and other topics. Students will learn simple sentence structure and reading of simple passages for reading comprehension.

French II - This course covers clothing, travel, the home, daily life, school, and health. Students will gain a beginning understanding of the past tense. Students will learn simple sentence structure and reading of simple passages for reading comprehension.

French III Honors - This course covers driving, French foods, chores, clothing, and the future. Students will gain a better understanding of the past tense. Students will take part in a fashion show and a project on a French historical figure.

French IV Honors - This course covers various topics and will review topics covered in Levels I through III. Students will spend a lot of time reading and studying complex level texts in the French language.

AP French Language - This course emphasizes the use of language for active communication. Students develop language skills (reading, writing, listening, and speaking that can be used in various activities and disciplines, and in formal and informal settings, rather than focusing on any specific subject matter. Emphasis is placed on the comprehension of the spoken and written target language in various contexts, coherent, and resourceful communication, and the organization and sharing of oral presentations and written presentations.

Arts & Fine Arts Electives



Visual Arts Beginning – This course introduces the elements and principles of design through an exploration of a broad range of media. Skills emphasized are drawing, painting, graphics, fibers, ceramics, art history, and a 3D design.

Visual Arts Intermediate - Students will be challenged to evaluate their art products, to solve problems in terms of the chosen art media, and to learn concepts and skills as they relate to personal art expression. Emphasis is on craftsmanship, technique, and creativity. A final portfolio is required and honors credit is earned.

Visual Arts Advanced: Students develop, clarify, and apply the philosophy of art and art making acquired in Art 3 through in-depth, independent, and advanced exploration with media, technique, and aesthetics. A portfolio of high quality work that demonstrates a broad base of knowledge is required and honors credit is earned.

Sculpture & Ceramics I- This course includes the fundamentals of 3-D modeling & composition planning. Various types of clay construction and glazing techniques are explored. Prerequisite is Visual Art I.

Sculpture & Ceramics II Honors – Students gain a better grasp of working with 3-D media in an out-of-the-box, in-depth way. We work with Paper, Wood, Plaster, Foam, Paper Mache, and of course, Clay. We also Re-Develop “Found” materials and recyclables!

AP Art History: This course requires students to make an extensive connection between the art of each time period, beginning with Paleolithic and ending with Postmodernism, and its relationship to culture. Students will use aesthetic judgment and art criticism to compare and contrast the many facets of art. It is expected that students enrolled in this course will take the College Board Advanced Placement Test.

AP Music Theory - involves the study of harmonic and form analysis and multiple-part composition and orchestration. This course involves formal analysis of music from the Baroque, Classical, Romantic, Impressionistic, and 20th Century periods. Students further their skills in ear training. It is expected that students enrolled in this course will take the College Board Advanced Placement Test.

Instrumental Band Beginning, Intermediate, Proficient, & Advanced - Previous band experience and/or audition required.

Chorus Electives



FVHS Concert Choir – Vocal Music II (2 Semesters with Audition) – This course is an Intermediate mixed choir comprised of men and women who have previously had 2 semesters of Vocal Music I and are interested in developing more advanced choral techniques and music reading skills.

FVHS Chamber Choir – Vocal Music III Honors (2 Semesters with Audition) – This course is designed for 11th and 12th Grade male and female students who have developed proficient to advanced vocal technique and sight-singing skills. These students have made choral singing a priority in their high school experience and are committed to excellence in classwork, rehearsal, and performance.

FVHS a cappella – Vocal Music IV Honors (2 semester with Audition) – This course is designed for 11th and 12th grade male and female students who have developed Advanced vocal technique and sight-singing skills. These students will form an a cappella group and have placed chorus a high priority in their high school experience.

Theatre Arts Electives



For the Actor...

Theater I, II, III (H), & IV (H) – This course trains students in basic aspects of movement for the stage and vocal expression. Class activities include Pantomime, Improvisation, and Solo and Ensemble Acting. Students’ memorized acting work is presented at least once every week. Students will also study selected plays and Origins of the Theater. These classes culminate in a polished performance before an invited audience.

For the designer...

Technical Theater I, II, III (H) – This course allows students to explore “Back Stage.” Areas of study include Scenery Construction, Scenic Painting, Properties and Lighting for the Stage. This is a “laboratory” course: the majority of class time is spent building scenery for the school’s theater production. Students have the opportunity to be backstage as crewmembers for school productions. Students who enjoy carpentry and painting will excel in these classes.

CTE Electives



Agriscience Applications [AU102X0]

A broad survey of the different areas of agriculture including leadership, animal science, environmental science, biotechnology, plant science, and agriculture mechanics. Prerequisite: none.

Agriculture Mechanics I [AS312X0]

Introduce students to the basic skills of agriscience structures and mechanical systems. Topics include: leadership, safety, tool usage, carpentry, electrical, concrete, and welding. Prerequisite: none.

Agriculture Mechanics II [AS322X0]

Leadership, safety, plumbing and irrigation, agriscience equipment, building layout and construction, and advanced welding and metal fabrication techniques are discussed. Prerequisite: Agriculture Mechanics I.

Agriculture Mechanics II (Honors) [AS325X0]

As mentioned in Agriculture Mechanics II as well as completion of a portfolio to demonstrate mastery of high academic achievement. Prerequisite: Agriculture Mechanics I.

Agriculture Mechanics II Small Engines [AS332X0]

Covers compression, fuel, electrical, cooling, lubrication systems and engine selection. Briggs and Stratton Beginning Service Technician Exam. Prerequisites: Agriculture Mechanics I and Agriculture Mechanics II.

Horticulture I [AP412X0]

Teaches basic plant sciences; topics include landscape plant identification, plant anatomy, plant growth, growing medias, fertilizers, pesticides, plant reproduction techniques. Prerequisite: none.

Horticulture II [AP422X0]

Further develops skills in leadership, greenhouse and nursery operation, landscape design and maintenance, plant identification, floral design, and turf management. Prerequisite: Horticulture I.

Horticulture II (Honors) [AP425X0]

As mentioned in Horticulture II as well as completion of a portfolio to demonstrate mastery of high academic achievement. . Prerequisite: Horticulture I.

Scientific and Technical Visualization I [TS212X0]

Students use complex 2D graphics, animation, editing, and image analysis tools to better understand, illustrate, explain, and present STEM concepts and principles. Prerequisite: none.

Scientific and Technical Visualization II [TS222X0]

This course provides students with advanced skills in the use of complex visualization tools for the study of science, technology, or mathematical concepts. Students design and develop increasingly complex data and concept-driven visualization models. Students use complex 2D and 3D graphics, animation, editing, and image analysis tools to better understand, illustrate, and explain concepts. Prerequisite: Scientific and Technical Visualization I

Scientific and Technical Visualization II (HONORS) [TS225X0]

This course provides students with advanced skills in the use of complex visualization tools for the study of science, technology, or mathematical concepts. Students design and develop increasingly complex data and concept-driven visualization models. Students use complex 2D and 3D graphics, animation, editing, and image analysis tools to better understand, illustrate, and explain concepts. Prerequisite: Scientific and Technical Visualization I.

Game Art and Design [TS312X0]

Students develop physical and virtual games using hands-on experiences and a variety of software. Prerequisite: Scientific and Technical Visualization I.

Game Art and Design (Honors) [TS315X0]

As mentioned in Game Art and Design as well as completion of a portfolio to demonstrate mastery of high academic achievement. Prerequisite: Scientific and Technical Visualization I.

Computer Programming I [BP102X0]

This course is designed to introduce the concepts of programming, application development, and writing software solutions in the Visual Studio environment. Emphasis is placed on the software development process, principles of user interface design, and the writing of a complete Visual Basic program including obtaining and validating user input, logical decision making and processing, graphics, and useful output. Mathematics is reinforced throughout the course.

SAS Programming I (Honors) [BP205X0]

This course is the entry point for students to learn SAS programming. Students will learn how to plan and write SAS programs to solve common data analysis problems. Instruction provides practice running and debugging programs. The emphasis is placed on reading input data, creating list and summary reports, defining new variables, executing code conditionally, reading raw data files and SAS data sets, and writing the results to SAS data sets. Mathematics is reinforced throughout the course. This course can help prepare students for the SAS Base Programming Exam for SAS 9 certification exam. The prerequisite for this course is any Computer Programming course.

AP Computer Science [2A027X0]

This is a college-level introductory course in computer science. Because the design and implementation of computer programs to solve problems involves skills that are fundamental to the study of computer science, a large part of the course is built around the development of computer programs that correctly solve a given problem. These programs should be understandable, adaptable, and when appropriate, reusable. At the same time, the design and implementation of computer programs is used as a context for introducing other important aspects of computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, the study of standard algorithms and typical applications, and the use of logic and formal methods. In addition, the responsible use of these systems is an integral part of the course. The course is designed to be the equivalent of a first-semester college course in computer science. Mathematics is reinforced throughout the course. Work-based learning strategies appropriate for this course include apprenticeship, cooperative education, entrepreneurship, internship, mentorship, school-based enterprise, service learning, and job shadowing. Future Business Leaders of America (FBLA) competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic

experiences. Further information about the course and the AP Computer Science Exam can be found at http://www.collegeboard.com/student/testing/ap/sub_compscia.html

AP Computer Science Principles [BP407X0]

This course is an introduction to the principles of computer science, including the history, social implications, and future of computing and how computing empowers discovery and progress in other fields. The relevance of computing to the student and society will be emphasized. Students will learn the joy of programming a computer using a friendly, graphical language, and will complete a substantial team programming project related to their interests. Students that successfully complete this course will earn AP credits.

Technology, Engineering and Design [TE112X0]

Through engaging activities and hands-on project-based activities, students are introduced to elements and principles of design, basic engineering, problem solving, and teaming. Prerequisite: none.

Technological Design I [TE122X0]

This course continues to apply the skills, concepts, and principles of design. The design fields of graphics, industrial design, and architecture receive major emphasis. Engineering content and professional practices are presented through practical application. Prerequisite is Technology, Engineering, & Design

Technological Design I (HONORS) [TW125X0]

In addition to the standard course requirements for Technological Design, this honors level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Prerequisite is Technology, Engineering, & Design

Drafting I [IC612X0] This course introduces students to the use of simple and complex graphic tools used to communicate and understand ideas and concepts found in the areas of architecture, manufacturing, engineering, science, and mathematics. Topics include problem-solving strategies, classical representation methods such as sketching, geometric construction techniques, as well as computer assisted design (CAD), orthographic projection, and 3-D modeling.

Biomedical Technology [HB102X0]

Challenges students to investigate current medical and health care practices using technology and advances in health care research.

Health Science I [HU402X0A]

Looks at human anatomy, physiology and human body diseases and disorders, and biomedical therapies. Projects, teamwork, and demonstrations reinforce the curriculum content. Prerequisite: none.

Health Science II (Honors) [HU425X0]

Expands understanding of financing and trends of health care agencies, fundamentals of wellness, legal and ethical issues, teamwork, and effective communication. Prerequisite: Health Science I.

Health Team Relations [HU102X0]

Include health care agencies, ethics, legal responsibilities, careers, holistic health, human needs, change, cultural awareness, medical math, leadership, and career decision making. Prerequisite: none.

Entrepreneurship I (Honors) [ME115X0]

Students develop components of a business plan and evaluate startup requirements. Prerequisite: Marketing or Principles of Business and Finance.

Marketing [MM512X0]

Students learn the processes involved from creation through consumption of products and services while understanding product, price, place and promotion. Prerequisite: none.

Microsoft Excel and Access [BM202X0]

Learn to manage workbooks as well as how to manage, manipulate, and format data. This course prepares students for the Microsoft Office Specialist certification. Prerequisite: none.

Microsoft Excel and Access (Honors) [BM205X0]

As mentioned in Microsoft Excel and Access as well as completion of a portfolio to demonstrate mastery of high academic achievement. Prerequisite: none.

Microsoft Word and PowerPoint [BM102X0]

Students will create, enhance, customize, share and create complex documents, and presentations. This course prepares students for the Microsoft Office Specialist certification. Prerequisite: none.

Microsoft Word and Powerpoint (Honors) [BM105X0]

As mentioned in Microsoft Word, PowerPoint and Publisher as well as completion of a portfolio to demonstrate mastery of high academic achievement. Prerequisite: none.

Multimedia and Webpage Design [BD102X0]

Focuses on desktop publishing, graphic image design, computer animation, virtual reality, multimedia production, and webpage design. Prerequisite: MSITA Word and Powerpoint

Principles of Business and Finance [BF102X0]

Students explore finance, management, and marketing to cover business in the global economy, functions of business organization and management, marketing basics, and risk management. Prerequisite: none.

Sports and Entertainment Marketing I [MH312X0]

Students learn about planning sports, entertainment, and event marketing. Topics include branding, licensing, naming rights, economic foundations; human relations; and safety and security. Prerequisite: none.

Sports and Entertainment Marketing II (Honors) [MH325X0]

Emphasis is on business management, career development, client relations, contracts, ethics, event and facilities management, legal issues, and sponsorships. Prerequisite: Sports & Entertainment Marketing I.

Digital Media I [IA312X0]

Students will gain industry knowledge and skills in the digital media field. Areas covered include graphics, animation, video, and web design. Emphasis is placed on media technologies, non-linear editing, product development, and design. Common Core Math II is recommended as preparation for this course.

Advanced Digital Media [IA322X0]

Students will put the foundational skills and knowledge learned in Digital Media I to practical use with more advanced activities and projects. Prerequisite: Digital Media.

Advanced Digital Media (Honors) [IA325X0]

As mentioned in Advanced Digital Media as well as completion of a portfolio to demonstrate mastery of high academic achievement. Prerequisite: Digital Media.

Core and Sustainable Construction [IC002X0]

Basic safety, construction math, introduction to hand tools, introduction to power tools, introduction to blueprints, material handling, basic employability skills, and the Green Environment. Prerequisite: none.

Masonry I [IC112X0]

Introduces the nature of masonry technology, materials and supplies, and employability skills. Prerequisite: Core/Sustainable Construction.

Masonry II [IC122X0]

Provides advanced masonry skills including measurements, drawing and specifications, mortar, masonry units, and installation techniques. Prerequisite: Masonry I.

Masonry II (Honors) [IC125X0]

As mentioned in Masonry II as well as completion of a portfolio to demonstrate mastery of high academic achievement. Prerequisite: Masonry I.

Masonry III [IC132X0]

Covers residential plans and drawing interpretation, masonry, grout and other reinforcement, and metalwork in masonry. Prerequisite: Masonry II.

Apparel and Textile Production I [FA312X0]

Learn the basics of sewing/fabrics to construct apparel items. Explore textiles, clothing care, fashion. Students must provide their own materials on due dates. Prerequisite: none.

Apparel Development II [FA322X0]

Explore and use advanced sewing techniques to construct several apparel items. Students must provide their own materials. Textiles/entrepreneurship/careers also covered. Prerequisite: Apparel Development I.

Apparel Development II (Honors) [FA325X0]

As mentioned in Apparel Development II as well as completion of a portfolio to demonstrate mastery of high academic achievement. Prerequisite: Apparel Development I.

Early Childhood Education I [FE112X0]

Application course; areas of study include personal and professional preparation, child development from birth to age 12 and includes an internship that makes up 50 percent of instructional time. Prerequisite: none. This is an application course.

Early Childhood Education II (Honors) [FE125X0]

Application course; advanced experiences including an internship that makes up 50% of instructional time. Completion of a portfolio to demonstrate mastery of high academic achievement. Prerequisite: Early Childhood Education I. This is an application course.

Foods I [FN412X0]

Emphasis is placed on the relationship of diet to health, kitchen and meal management, food preparation and sustainability for a global society, and time and resource management. Prerequisite: none.

Foods II – Enterprise [FN422X0]

This course focuses on advanced food preparation techniques while applying nutrition, food science, and test kitchen concepts using new technology. Food safety and sanitation receive special emphasis, with students taking the exam for a nationally recognized food safety credential. Students develop skills in preparing foods such as beverages, salads and dressing, yeast breads, and cake fillings and frostings. A real or simulated in-school food business component allows students to apply instructional strategies. Prerequisite is Foods I.

Foods II Enterprise (HONORS) [FN425X0]

In addition to the standard course requirements Foods II- Enterprise, this honors level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently and has a history of high academic achievement. Prerequisite is Foods I.

Principles of Family and Human Services [FC112X0]

Students learn core functions of the human services field; individual, family, and community systems; and life literacy skills for human development. Emphasis is placed on professional skills, human ecology, diversity, analyzing community issues, and life management skills. Activities engage students in exploring various helping professions, while building essential life skills they can apply in their own lives to achieve optimal wellbeing.

Parenting and Child Development [FE602X0]

Areas of study include parenthood decisions, child care issues, prenatal development and care, and development and care of infants, toddlers, and children three through six. Prerequisite: none.

Personal Finance [BF052X0]

This course prepares students to understand economic activities and challenges of individuals and families, the role of lifestyle goals in education and career choices, procedures in a successful job search, financial forms used in independent living, and shopping options and practices for meeting consumer needs. The course also prepares students to understand consumer rights, responsibilities and information, protect personal and family resources, and apply procedures for managing personal finances.