

Business Department

<p>Economics and Personal Finance Course Code 6120</p>	<p>Grade Level: 11, 12</p>
<p>Economics and Personal Finance Students learn how to navigate the financial decisions they must face and to make informed decisions related to career exploration, budgeting, banking, credit, insurance, spending, taxes, saving, investing, buying/leasing a vehicle, living independently, and inheritance. Development of financial literacy skills and an understanding of economic principles will provide the basis for responsible citizenship and career success. In addition to developing personal finance skills, students in the 36-week course will also study basic occupational skills and concepts in preparation for entry-level employment in the field of finance. The course incorporates all economics and financial literacy objectives included in the Code of Virginia §22.1-200-03B.</p>	<p>Prerequisite: None</p> <p>Assessment: Exam</p> <p>Required course for graduation</p> <p>Term: Year-long</p> <p>Credits: 1 CTE</p>

<p>Keyboarding Applications Course Code 6153</p>	<p>Grade Level: 9, 10, 11, 12</p>
<p>This course is designed for secondary school students to develop and enhance touch skills for entering alphabetic, numeric, and symbol information on a keyboard. Students compose and produce a variety of personal, educational, and professional documents. The cooperative education method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year.</p>	<p>Prerequisite: None</p> <p>Assessment: Industry Certification/Licensure Assessment</p> <p>Term: Semester (18 weeks)</p> <p>Credits: .5 CTE</p>
<p>Word Processing Course Code 6626</p>	<p>Grade Level: 9, 10, 11, 12</p>
<p>Students develop intermediate to advanced level word processing skills using a variety of software functions, including graphics, desktop publishing, and telecommunications. Students gain competence integrating other applications such as database and spreadsheet into word processing activities. Classroom experiences also provide for skill development in communication. The cooperative education method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved</p>	<p>Prerequisite: Keyboarding</p> <p>Assessment: Industry Certification/Licensure Assessment</p> <p>Term: Semester (18 weeks)</p> <p>Credits: .5 CTE</p>

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position with continuing supervision throughout the school year.	
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Office Administration (6621)	Grade level: 10, 11, 12
Office Administration is a course with emphasis on the development of word processing applications and office procedure skills. Additional units of instruction include operation of various office equipment, oral and written communication, records and database management, record keeping, human relations, information processing, and telephone techniques, with emphasis on positive work habits and attitudes important for succeeding on the job. Upon completion, the student will have acquired entry-level office skills.	Prerequisites: Keyboarding Applications Assessment: Industry Certification/Licensure Assessment Term: Full Year Credits: 1 CTE

Computer Information Systems (6612)/Advanced CIS (6613)	Grade level: 10, 11, 12
This course applies problem-solving skills to real-life situations through word processing, spreadsheet, and database software and through integrated software activities. Students work individually and in groups to explore computer concepts, operating systems, and emerging technologies	Prerequisites: Keyboarding Applications Assessment: Industry Certification/Licensure Assessment Term: Full Year Credits: 1 CTE each level

Design, Multimedia Presentations & Web Technologies (6630)	Grade Level: 11, 12
Students develop proficiency in using desktop publishing software to create a variety of business publications. Students work with sophisticated hardware and software to develop multimedia presentations.	Prerequisites: Keyboarding, Computer Information Systems, Word Processing (recommended) Assessment: Industry Certification/Licensure Assessment Term: Full Year Credits: 1 CTE
Database Design and Management (Oracle) (6660) Dual Enrollment (ITD130/132)	Grade Level: 11, 12
This first year course includes database design and SQL programming. Students study database fundamentals to include database development,	Prerequisites: None Assessment: Industry Certification/Licensure Assessment

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<p>modeling, design, and normalization. In addition, students are introduced to database programming. Students gain the skills and knowledge needed to use features of database software and programming to manage and control access to data. Students will prepare for the first of two certification exams.</p>	<p>Term: Full Year</p> <p>Credits: 1 CTE/6 college credits</p>
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<p>Computer Networking Hardware Operations I (8542)</p>	<p>Grade Level: 10, 11, 12</p>
<p>This course teaches students the skills needed to obtain entry-level home network installer jobs. It also helps students develop some of the skills needed to become network technicians, computer technicians, cable installers, and help-desk technicians. It provides a hands-on introduction to networking and the Internet, using tools and hardware commonly found in home and small business environments. Instructors are encouraged to facilitate field trips and outside-the-classroom learning experiences. Labs include PC installation, Internet connectivity, wireless connectivity, file and print sharing, and the installation of game consoles, scanners, and cameras.</p>	<p>Prerequisites: None</p> <p>Assessment: Industry Certification/Licensure Assessment</p> <p>Term: Semester (18 weeks)</p> <p>Credits: .5 CTE</p>
<p>Communication Systems (8418)</p>	<p>Grade Level: 10, 11, 12</p>
<p>Communication Systems provides experiences in the fields of imaging technology, graphic productions, video and media, technical design, and various modes of communicating information through the use of data. Students develop critical-thinking and problem-solving skills using the universal systems model. Students also learn about the impact of communication on society and potential career fields relating to communications.</p>	<p>Prerequisites: None</p> <p>Assessment: Industry Certification/Licensure Assessment</p> <p>Term: Semester (18 weeks)</p> <p>Credits: .5 CTE</p>

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<p><i>MODELING AND SIMULATION TECHNOLOGY 8460</i></p>	<p>Grade Level: (10-12)</p> <p>Prerequisites: None</p> <p>Term: Full Year</p> <p>Assessment: Exam Industry Certification/Licensure Assessment</p> <p>Credits: 1 CTE</p>
<p>Students will explore the use of modeling, simulation, and game development software to solve real-world problems in science, technology, engineering, and mathematics (STEM). The activities will include evaluating and testing engineering designs, modeling geospatial data, observing and analyzing physics simulations, programming games for educational purposes, and creating visualization systems with 3D models.</p>	

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ART

<p style="text-align: center;">Art I (9120)</p> <p>Foundation Art I is a general art course that covers the main fields of art such as drawing, painting, printmaking, calligraphy, cartooning, and crafts. Students will be introduced to a variety of media and encouraged to work in a serious studio environment. Emphasis is placed on the basic art elements of line, color, shape, value, texture, and space. A general survey of art history and artists is also a part of this course, and emphasis is placed on the development of art appreciation.</p>	<p>Grade level: 8, 9, 10, 11, 12</p> <p>Prerequisites: None</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Credits: 1 Fine Arts</p>
<p style="text-align: center;">Art II (9130)</p> <p>This course covers drawing, painting, print making, architecture, sculpture, advertising, design, and crafts. Emphasis is placed on technique, knowledge of materials, composition, and design. Careers in art are included in this course</p>	<p>Grade level: 9, 10, 11, 12</p> <p>Prerequisites: Art I</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Credits: 1 Fine Arts</p>
<p style="text-align: center;">Art III (9140)</p> <p>Art III is a course for students who have a serious interest in art. Major areas of art will be explored in greater depth. Students are given more freedom to work in media of their choosing. Emphasis is placed on developing personal style. Art history and a study of "modern" styles are included in this course.</p>	<p>Grade level: 10, 11, 12</p> <p>Prerequisites: Art II</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Credits: 1 Fine Arts</p>
<p style="text-align: center;">Art IV/V (9145) (9147)</p> <p>This class is a graphics class that will explore the fundamentals of art and design via the classroom computer. Paint Brush and Corel Draw and Paint will be the primary vehicles to meet the objectives. Color principles, design elements, architecture, proportion, communications, and text utilization will also be addressed. Students will learn the mechanics and functions of Paint Brush and Corel Draw, create patterns, grid drawings, and make alteration to existing drawings. Students will also learn principles of perspective on the computer, create ads, brochures, and/or cards involving mass media and re-create certain historical art styles or trends. Art V is portfolio preparation.</p>	<p>Grade level: 11, 12</p> <p>Prerequisites: Art III</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Credits: 1 Fine Arts per course</p>

AEROSPACE SCIENCE - AFJROTC

<p>AS 300: Exploring Space: The High Frontier (7913)</p>	<p>Grade level: 9, 10, 11, 12</p>
<p>AFJROTC is a 4-year program offered to high school students in grades 9 thru 12. Each course has three parts: They are Leadership education, Wellness, and Aerospace Science academics. The course offered to new Cadets is "Exploring Space: The High Frontier." The course begins with the study of the space environment from the earliest days of interest in astronomy and early ideas of the heavens, through the Renaissance, and on into modern astronomy. It provides an in-depth study of the Earth, Sun, stars, Moon, and solar system, including the terrestrial and the outer planets. The material covered will help the Cadet pass the Virginia Earth Science SOL exam. The Leadership portion of the course will cover Cadet and Air Force organizational structure; uniform wear; customs, courtesies, and other military traditions; individual self-control and citizenship. We are very focused on improving the general health and wellness of our Cadets. Our goal is for our Cadets to lead active, healthy lifestyles. We will participate in an exercise program focused upon individual base line improvements with the goal of achieving national standards as calculated by age and gender. Cadets meeting Air Force standards will be rewarded with the Wellness Ribbon. The Cadet will also be given the opportunity to participate in a number of recreational activities including: model rocketry, radio controlled aircraft, paintball, drill, orienteering, and rock climbing. If the Cadet continues in the JROTC program additional opportunities will be made available including Summer leadership School, drill competitions and visits to Senior ROTC units at various colleges. The goal of JROTC is to "Build Better Citizens for America" and to prepare students for life after high school. Our primary mission is to help our Cadets complete high school and to assist those who are qualified in obtaining Department of Defense Senior ROTC Scholarships</p>	<p>Prerequisites: None</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Credits: 1 CTE (high school) 2 possible College Credits from Adams State College</p>

<p>AS 100: A Journey into Aviation History (7916)</p>	<p>Grade level: 10, 11, 12</p>
<p>This is an aviation history course focusing on the development of flight throughout the centuries. It starts with ancient civilizations, then progresses through time to modern day. The emphasis is on civilian and military contributions to aviation: the development, modernization, and transformation of the Air Force; and a brief astronomical and space exploration history. It is interspersed with concise overviews of the principles of flight to include basic aeronautics, aircraft motion and control flight power, and rockets. Throughout the course, there are readings, videos, hands-on activities and in-text and student workbook exercise to guide in the reinforcement of the materials. The Leadership portion of the course stresses communication skills and Cadet Corps Activities. Much information is provided on communicating effectively, understanding groups and teams, preparing for leadership, solving conflicts and problems, and personal development. Written reports and speeches compliment the academic materials. Cadet Corps activities include holding positions of greater responsibility in the planning and execution of Corps projects. We are very focused on improving the general health and wellness of our Cadets. Our goal is for our Cadets to lead active, healthy lifestyles. We will participate in an exercise program focused upon individual base line improvements with the goal of achieving national standards as calculated by age and gender. Cadets meeting Air Force standards will be rewarded with the Wellness Ribbon.</p>	<p>Prerequisites: None</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Credits: 1 CTE (high school) 2 possible College Credits from Adams State College</p>

<p>AS 200: The Science of Flight: A Gateway to New Horizons (7918)</p>	<p>Grade level: 10, 11, 12</p>
<p>This is an introductory and customized course that focuses on how airplanes fly, how weather conditions affect flight, flight and the human body, and flight navigation. The course is designed to complement materials taught in math, physics, and other science related courses and support a Science, Technology, Engineering, and Mathematics (STEM) education. The Leadership portion of the course will be helpful to students deciding which path to take after high school. Information on how to apply for admission to college or to a vocational or technical school is included. Information on how to begin the job search is available to students who decide not to go to college or vocational school. Also available is information about financial planning and how to save, invest, and spend money wisely, as well as how not to get caught in the credit trap. Students are informed about real life issues such as understanding contracts, leases, wills, warranties, legal notices and personal bills. Citizen responsibilities such as registering to vote, jury duty, and draft registration is also covered. For students who may be moving into an apartment of their own, information is presented on apartment shopping and grocery shopping skills. We are very focused on improving the general health and wellness of our Cadets. Our goal is for our Cadets to lead active, healthy lifestyles. We will participate in an exercise program focused upon individual base line improvements with the goal of achieving national standards as calculated by age and gender. Cadets meeting Air Force standards will be rewarded with the Wellness Ribbon</p>	<p>Prerequisite: AS 300 Exploring Space</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Credits: 1 CTE (high school) 3 possible College Credits from Adams State College</p> <p>JROTC Space+Flight or History + ASVAB test=SOL elective in Social Studies or Science and student selected SOL credit</p>

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<p>AS 500: Aviation Honors Ground School Program (7924)</p>	<p>Grade level: 11,12</p> <p>Prerequisites: Prerequisites: a minimum of two years of AFJROTC coursework including AS 200: The Science of Flight (7918) with a grade of "C" or better and written Instructor approval</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Credits: 1 CTE (high school) 3 possible College Credits from Adams State College</p>
<p>This course is the foundation for students interested in receiving a private pilot's license. When the course is completed the students should be prepared to take and pass the Federal Aviation Administration (FAA) written examination. The "Private Pilot manual" is the primary source for initial study and review. The text contains complete and concise explanations of the fundamental concepts and ideas that every private pilot needs to know. The Cadet will also participate in computer based training flights using Microsoft X software. We are very focused on improving the general health and wellness of our Cadets. Our goal is for our Cadets to lead active, healthy lifestyles. We will participate in an exercise program focused upon individual base line improvements with the goal of achieving national standards as calculated by age and gender. Cadets meeting Air Force standards will be rewarded with the Wellness Ribbon.</p>	

<p>AS 400: Management of the Cadet Corps (7926)</p>	<p>Grade level: 11, 12</p> <p>Prerequisites: Instructor approval</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Credits: 1 CTE (high school) 3 possible College Credits from Adams State College</p>
<p>The Cadets manage the entire Corps during their fourth year in the JROTC program. This hands-on experience affords the Cadets the opportunity to put the theories of previous leadership courses into practice. All the planning, organizing, coordinating, directing, controlling, and decision-making will be done by the Cadets. They practice their communication, decision- making, personal- interaction, managerial, and organizational skills. The course objectives are: Apply the theories and techniques learned in previous leadership course. Know how to develop leadership and management competency through participation. Apply strengthened organizational skills through active incorporation. Know how to develop confidence in ability by exercising decision-making skills. Apply Air Force standards,</p>	

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<p>discipline, and conduct. We are very focused on improving the general health and wellness of our Cadets. Our goal is for our Cadets to lead active, healthy lifestyles. We will participate in an exercise program focused upon individual base line improvements with the goal of achieving national standards as calculated by age and gender. Cadets meeting Air Force standards will be rewarded with the Wellness Ribbon.</p>	
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AGRICULTURE

<p>Foundations of Agriculture, Food, and Natural Resources (8006) (Ag I)</p>	<p>Grade level: 9, 10, 11, 12</p>
<p>This course is designed to develop competencies in each of the career pathways as they pertain to agricultural education, including the areas of Virginia’s agriculture industry; the global scope of agriculture; scientific research concepts in plant, animal, and food science; principles of leadership and opportunities within student organizations; agribusiness and Supervised Agricultural Experience program opportunities; agricultural skills and safety in power, structural, and technical systems; and natural resources and environmental systems.</p>	<p>Prerequisites: None</p> <p>Term: Full Year</p> <p>Assessment: Exam Industry Certification/Licensure Assessment</p> <p>Credits: 1 CTE</p>
<p>Introduction to Animal Systems (8008)(Ag II)</p>	<p>Grade level: 9, 10, 11, 12</p>
<p>Students develop competencies in each of the major areas of the Animal Systems career pathway including animal nutrition, reproduction, breeding, care, and management. Students learn agricultural mechanics applicable to animal systems. As with all agriculture courses, students will be exposed to principles of leadership and opportunities within student organizations along with Supervised Agricultural Experience opportunities.</p>	<p>Prerequisites: None</p> <p>Term: Full Year</p> <p>Assessment: Exam Industry Certification/Licensure Assessment</p> <p>Credits: 1 CTE</p>
<p>Agricultural Production Technology (8010)(Ag III)</p>	<p>Grade level: 11, 12</p>
<p>This course emphasizes one or more areas of plant science, animal science, soil science, agricultural business management, and agricultural mechanization, based upon the student’s employment objective. Local school divisions should select one of the following livestock enterprises: beef cattle, dairy cattle, swine, horses, or sheep. The competencies for the selected livestock enterprise are considered essential for the course. Supervised occupational experience programs and leadership training are important parts of the course. When only single periods are</p>	<p>Prerequisites: None</p> <p>Term: Full Year</p> <p>Assessment: Exam Industry Certification/Licensure Assessment</p> <p>Credits: 1 CTE</p>

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provided, greater emphasis is placed on individualized instruction and supervised occupational experience programs.	
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Agricultural Production Management (8012)(Ag IV)	Grade level: 11, 12
Course includes instruction in agricultural mechanics, with emphasis placed on the application of mechanical skills to farm power and machinery, soil and water management, supervised farming programs, and leadership training.	Prerequisites: None Term: Full Year Assessment: Exam Industry Certification/Licensure Assessment Credits: 1 CTE

Equine Management Production (8080)	Grade level: 9, 10, 11, 12
In this course, students learn how to care for and manage horses. Equine health, nutrition, management, reproduction, training, evaluation, and showmanship are the major instructional areas. In addition, course content includes instruction in the tools, equipment, and facilities for equine enterprises. Business management topics include the economics of boarding, training, and merchandising horses. Leadership development activities are included, and participation in FFA activities is encouraged.	Prerequisites: None Term: Full Year Assessment: Exam Industry Certification/Licensure Assessment Credits: 1 CTE

Small Animal Care I (8083)	Grade level: 9, 10, 11, 12
. Students learn how to care for and manage small animals, focusing on instructional areas in animal health, nutrition, management, reproduction, and evaluation. Course content also includes instruction in the tools, equipment, and facilities for small animal care, and provides activities to foster leadership development. FFA and SAE activities are encouraged.	Prerequisites: None Term: Full Year Assessment: Exam Industry Certification/Licensure Assessment Credits: 1 CTE

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<p>Small Animal Care II (8084)</p>	<p>Grade level: 10, 11, 12</p>
<p>Students advance their skills in the care and management of small animals, focusing on specific needs of various breeds. Instruction includes handling animals and grooming/caring for coats, as well as technical and maintenance functions related to animal health. The course also includes office-management instruction and affords students the opportunity to practice leadership skills. FFA and SAE activities are encouraged.</p>	<p>Prerequisites: Small Animal Care I</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Industry Certification/Licensure Assessment</p> <p>Credits: 1 CTE</p>

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Family and Consumer Science

<p align="center">Nutrition and Wellness (8228/8229)</p>	<p>Grade Level: 9, 10, 11, 12</p>
<p>Students focus on making choices that promote wellness and good health; analyzing relationships between psychological and social needs and food choices; choosing foods that promote wellness; obtaining and storing food for self and family; preparing and serving nutritious meals and snacks. Teachers highlight the basic skills of math, science, and communications when appropriate in the content.</p>	<p>Prerequisites: None</p> <p>Term: Full Year or Semester</p> <p>Assessment: Exam Industry Certification/Licensure Assessment</p> <p>Credits: 1 or .5 CTE</p>
<p align="center">Child Development and Parenting (8231/8232)</p>	<p>Grade Level: 9, 10, 11, 12</p>
<p>Students focus on assessing the impact of the parenting role in society; taking responsibility for individual growth within the parenting role; preparing for a healthy emotional and physical beginning for parent and child; and meeting developmental needs of children and adolescents.</p>	<p>Prerequisites: None</p> <p>Term: Full Year or Semester</p> <p>Assessment: Exam Industry Certification/Licensure Assessment</p> <p>Credits: 1 or .5 CTE</p>
<p align="center">Introduction to Culinary Arts (8250)</p>	<p>Grade Level: 9, 10, 11, 12</p>
<p>The competencies focus on identifying and exploring the individual careers within the food service industry. Units of study include food science and technology, dietetics and nutrition services, diverse cuisines and service styles, current trends, food and beverage production and preparation, and food safety and sanitation. The cooperative education method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. Students gain hands on experience in selecting, preparing, and serving food.</p>	<p>Prerequisites: None</p> <p>Term: Full Year</p> <p>Assessment: Exam Industry Certification/Licensure Assessment</p> <p>Credits: 1 CTE</p>

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Marketing

Principles of Business and Marketing (8116)	Grade Level: 9, 10
Students explore the roles of business and marketing in the free enterprise system and the global economy. They study how the American economy operates and prepare to make decisions as consumers, wage earners and citizens. Academic knowledge and skills (mathematics, science, English, and history/social science) related to the content are a part of this course.	Prerequisites: None Term: Semester Assessment: Exam Industry Certification/Licensure Assessment Credits: .5 CTE

Leadership Development (9096)	Grade Level: 9, 10
Students develop competencies in identifying individual aptitudes in relation to effective leadership skills, understanding organizational behavior, using effective communication in the workplace, handling human resources and organizational problems, supervising and training employees, resolving conflict, and planning for the future. Continuing education in leadership is emphasized as well as practical leadership experiences in cooperation with school and community leaders.	Prerequisites: None Term: Semester Assessment: Exam Industry Certification/Licensure Assessment Credits: .5 CTE

Marketing (8120) (co-op)	Grade Level: 11, 12
This course provides students with instruction that enables them to obtain skills necessary to succeed in their chosen marketing occupation. Students enrolled in Marketing have the option of being enrolled in Cooperative Education. Students enhance their knowledge, skills, and attitudes by participating in supervised experiences that are not easily replicated in an educational setting. Cooperative Education provides students with direct on-the-job training experiences for a minimum of 396 work hours during the school year. Students will receive two credits for successful completion of the course.	Prerequisites: None Term: Full Year Assessment: Exam Industry Certification/Licensure Assessment Credits: 2 CTE

Advanced Marketing (8130) (co-op)	Grade Level: 12
This course enables students to develop competencies needed to advance to full- time	Prerequisite: Marketing

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<p>employment in marketing. Students develop advanced competencies in several of the same areas studied in Marketing and, in addition, develop basic competencies in the areas of sales promotion, merchandising, market research, and management. Students continue the arrangement of combining classroom instruction with a minimum of 540 hours of supervised on-the-job training during the school year.</p>	<p>Term: Full Year</p> <p>Assessment: Exam Industry Certification/Licensure Assessment</p> <p>Credits: 2 CTE</p>
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<p style="text-align: center;">Fashion Marketing (8140)</p> <p>In this specialized course, students gain basic knowledge of the apparel and accessories industry and skill necessary for successful employment in apparel businesses. Students develop general marketing skills necessary for successful employment in fashion marketing, general marketing skills applied to the apparel and accessories industry, and specialized skills unique to fashion marketing. Personal selling, sales promotion, purchasing, physical distribution, market planning, and product/service technology as well as academic skills (mathematics, science, English, and history/social science) related to the content are part of this course. Computer/technology applications supporting this course are studied.</p>	<p>Grade Level: 11, 12</p> <p>Prerequisites: None</p> <p>Term: Full Year</p> <p>Assessment: Exam Industry Certification/Licensure Assessment</p> <p>Credits: 1 CTE</p>
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<p style="text-align: center;">Advanced Fashion Marketing (8145)(co-op)</p> <p>Students with a career interest in apparel and accessories marketing gain in-depth knowledge of the apparel and accessories industry and skills important for supervisory management employment in apparel business; they develop advanced skills u unique to fashion marketing and advanced general marketing skills applied to the apparel and accessories industry. Professional selling, sales promotion, buying, merchandising, marketing research, product service technology, and supervision as well as academic skills related to the content are part of this course. Computer technology applications supporting this course are studied. The cooperative education method is available for this course.</p>	<p>Grade Level: 12</p> <p>Prerequisites: Fashion Marketing</p> <p>Term: Full Year</p> <p>Assessment: Exam Industry Certification/Licensure Assessment</p> <p>Credits: 1 CTE</p>
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Sports, Entertainment, and Recreation Marketing (8175)	Grade Level: 11, 12
Students develop skill in the areas of marketing analysis, event marketing, communication, and human relations, along with a thorough understanding of the sports, entertainment and recreation industry and career options available. Academic skills (mathematics, science, English, and history/social science) related to the content are a part of this course. Computer/technology applications supporting this course are studied.	Prerequisites: None Term: Full Year Assessment: Exam Industry Certification/Licensure Assessment Credits: 1 CTE

Advanced Sports, Entertainment, and Recreation Marketing (8177)	Grade Level: 12
Students will build on prior knowledge of sports, entertainment, and recreation marketing. This course focuses on the principles of management and planning supported by research, financial, and legal concepts. Students will be able to plan and execute an event; develop a career plan, and establish a sports, entertainment, and recreation product or business. Academic skills related to the content are a part of this course. Computer technology applications supporting the course are studied.	Prerequisites: Sports Marketing 8175 Term: Full Year Assessment: Exam Industry Certification/Licensure Assessment Credits: 1 CTE

Video and Media Technology “Blue News”(8497)	Grade Level: 11, 12
This course offers students an opportunity to study all aspects of video and media production, from planning and writing for production to operating studio and editing equipment. Students practice various methods of gathering news and information from individuals, research, and online resources. In addition, students are introduced to analog and digital principles of film production.	Prerequisites: Instructor approval Term: Full Year Assessment: Exam Industry Certification/Licensure Assessment Credits: 1 CTE

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Physical Education

Health and Physical Education 9 (7300)	Grade Level: 9
Health and Physical Education 9 is a required course designed to encourage a physically active lifestyle. Students learn how to achieve and maintain a health- enhancing level of physical fitness. Health units covered include wellness, disease prevention and control, consumer health, first aid, and nutrition.	Prerequisites: None Term: Full Year Assessment: Exam Required course Credits: 1 PE

Health and Physical Education 10 (7405)	Grade Level: 10
Health and Physical Education 10 encourages a physically active lifestyle with emphasis on individual sports. A unit on making positive choices is included in the mental health class, and the classroom part of Driver Education is included in this course, also.	Prerequisites: PE 9 Term: Full Year Assessment: Exam Required course Credits: 1 PE

SPORT, EXERCISE, AND HEALTH SCIENCES PE 7638	Grade Level: 11
PE 7638 Sport, Exercise, and Health Sciences has been designed to develop a greater level of physical fitness in our students as well as a better understanding of the body systems and the role they play in their health and performance. Students will be required to participate in vigorous exercises which will include weight training, running, plyometrics, and core training. Various methods of weight training will be used including traditional Olympic core lifts along with supplemental lifts, as well as Crossfit principles that incorporate weight training with conditioning at a high level of intensity. In addition to weight training and conditioning, students will be exposed to various topics related to weight training and conditioning. Lecture/class discussions will include weight room safety, proper spotting techniques, anabolic steroids,	Prerequisites: PE 10 Term: Full Year Assessment: Exam Elective course Credits: 1 elective

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<p>nutritional supplements, Creatine, proper nutrition, and proper rest. Videos will also be used to teach and reinforce proper lifting technique. Students will also learn about the skeletal, muscular, cardiovascular, pulmonary, and energy systems of the body and how they relate to good health and performance.</p>	
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Music

<p style="text-align: center;">Beginning Chorus (9260)</p>	<p>Grade Level: 8, 9, 10, 11, 12</p>
<p>Fundamental vocal techniques, reading musical notation, voice production, music performance, and diction are stressed. Chorus may perform for public functions, and out-of-school activities may be required of participants. Course may be repeated.</p>	<p>Prerequisites: None</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Elective course</p> <p>Credits: 1 elective</p>
<p style="text-align: center;">Intermediate Chorus (9285)</p>	<p>Grade Level: 9, 10, 11, 12</p>
<p>Fundamental vocal techniques, reading musical notation, voice production, music performance, and diction are stressed. Choirs may perform for public functions, and out-of-school activities may be required of participants.</p>	<p>Prerequisites: None</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Elective course</p> <p>Credits: 1 elective</p>
<p style="text-align: center;">Advanced Chorus (9289)</p>	<p>Grade Level: 10, 11, 12</p>
<p>Emphasis is placed on music performance. Participants will be required to perform for public functions as well as in-school activities. Participants may also be required to perform a musical production during the school year. Audition procedure will include pitch matching, sight singing and a prepared selection. Course may be repeated.</p>	<p>Prerequisites: Audition – Teacher Approval</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Elective course</p> <p>Credits: 1 elective</p>

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<p align="center">Intermediate Band (9233); Advanced Band (9234)</p>	<p>Grade Level: 8, 9, 10, 11, 12</p>
<p>This course emphasizes basic musical skills and their use in the performance of band music. Students also learn how to march and use the marching skills for both field shows and parades. Competition in concert and marching band may be stressed for the musical growth of the organization. Public performance is an integral part of the band program and out-of-school activities may be required of participants. This course may be divided into symphonic (advanced) band and intermediate band, with students placed by audition. Course may be repeated.</p>	<p>Prerequisites: None</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Elective course</p> <p>Credits: 1 elective</p>

<p align="center">Guitar I (9245)</p>	<p>Grade Level: 9, 10, 11, 12</p>
<p>The standards for High School Guitar I enable students to begin receiving instruction on acoustic guitar at any high school grade level. Students demonstrate proper care of the instrument and become familiar with its history and technology, including different types of guitars. They demonstrate basic positions, right-hand and left-hand techniques, and tone production. Students read and perform music of varying styles and levels of difficulty. They describe, respond to, interpret, and evaluate works of music and create basic variations of simple melodies. They investigate career options in music. Students may use standard method books in class settings.</p>	<p>Prerequisites: None</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Elective course</p> <p>Credits: 1 elective</p>
<p align="center">Guitar II (9247)</p>	<p>Grade Level: 10, 11, 12</p>
<p>The standards for High School Guitar I enable students to continue receiving instruction on acoustic guitar at any high school grade level. Students demonstrate proper care of the instrument and become familiar with its history and technology, including different types of guitars. They demonstrate basic positions, right-hand and left-hand techniques, and tone production. Students read and perform music of varying styles and levels of difficulty. They describe, respond to, interpret, and evaluate works of music and create basic variations of simple melodies. They investigate career options in music. Students may use standard method books in class settings.</p>	<p>Prerequisites: Guitar I</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Elective course</p> <p>Credits: 1 elective</p>

Foreign Language

To receive an Advanced Studies diploma, students are required to earn three (3) units of one foreign language or two (2) units each of two languages.

<p style="text-align: center;">Spanish I (5510)</p> <p>Level I Spanish focuses on the development of students' communicative competence in Spanish and their understanding of the culture(s) of Spanish-speaking countries. Communicative competence is divided into three strands: speaking and writing as an interactive process in which students learn to communicate with another Spanish speaker; reading and listening as a receptive process in which comprehension of Spanish texts is developed; and speaking and writing in a presentational context in which students are focused on the organization of thoughts and awareness of their audience in delivering information.</p>	<p>Grade Level: 8, 9, 10, 11, 12</p> <p>Prerequisites: None</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Elective course</p> <p>Credits: 1 foreign language elective</p>
<p style="text-align: center;">Spanish II (5520)</p> <p>In Spanish II, students continue to develop their proficiency in the three modes of communicative competence: interacting with other speakers of Spanish, understanding oral and written messages in Spanish, and making oral and written presentations in Spanish. They begin to show a greater level of accuracy when using basic language structures and are exposed to more complex features of the Spanish language. They continue to focus on communicating about their immediate world and daily life activities. They read material on familiar topics and write short, directed compositions. Emphasis continues to be placed on the use of Spanish in the classroom as well as on the use of authentic materials to learn about the culture.</p>	<p>Grade Level: 9, 10, 11, 12</p> <p>Prerequisites: Spanish I grade of C or above</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Elective course</p> <p>Credits: 1 foreign language elective</p>
<p style="text-align: center;">Spanish III (5530)</p> <p>In Spanish III, students continue to develop their proficiency in the three modes of communicative competence: interacting with other speakers of Spanish, understanding oral and written messages in Spanish, and making oral and written presentations in Spanish. They communicate using more complex structures in Spanish on a variety of topics, including some of an abstract nature, such as social rights and responsibilities. They comprehend the main ideas of the authentic</p>	<p>Grade Level: 10, 11, 12</p> <p>Prerequisites: Spanish II grade of C or above</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Elective course</p> <p>Credits: 1 foreign language elective</p>

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<p>materials that they read and hear and are able to identify significant details when the topics are familiar. Spanish is used almost exclusively in the class as students develop the ability to discuss topics related to historical and contemporary events and issues.</p>	
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<p>Latin I (5310)</p>	<p>Grade Level: 9, 10, 11, 12</p>
<p>The student will develop the cultural understanding, attitude, and linguistic performance skills necessary to experience the life style and culture of the classical worlds. The student will gain greater perspective of the present by examining the culture and language in areas of Roman life which are history, government, literature, art, architecture, philosophy, religion, the military, and linguistics. The course emphasizes grammatical skills, translating, pronunciation, and word structure.</p>	<p>Prerequisites: None</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Elective course</p> <p>Credits: 1 foreign language elective</p>
<p>Latin II (5320)</p>	<p>Grade Level: 10, 11, 12</p>
<p>This course is a continuation of Latin I, with an emphasis on grammatical skills, translating, pronunciation, and word structure. Translating skills are developed by introduction to written records from Roman historians, and from selections from the prominent authors of the Roman era.</p>	<p>Prerequisites: Latin I grade of C or above</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Elective course</p> <p>Credits: 1 foreign language elective</p>
<p>Latin III (5330)</p>	<p>Grade Level: 11, 12</p>
<p>This course is a continuation of Latin II, with an emphasis on grammatical skills, translating, pronunciation, word structure, and vocabulary building. Translating skills are strengthened by continuing the study of Roman historians and authors.</p>	<p>Prerequisites: Latin II grade of C or above</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Elective course</p> <p>Credits: 1 foreign language elective</p>

English

Four units of English and two verified units of credit are required for standard and advanced diplomas.

<p style="text-align: center;">English 9 (1130)</p> <p>English 9 is an integrated study of literature, composition, and grammar. Students will also present dramatic readings of literary selections and continue to develop proficiency in making planned oral presentations. Students will critique significant literary works from a variety of cultures and eras. Students' writing will encompass narrative, literary, expository, and technical forms, emphasizing the rules of Standard English. They will use word processors, electronic databases, and a standard style sheet method to cite reference sources. Applied communication skills will be introduced.</p>	<p>Grade Level: 9</p> <p>Prerequisites: None</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Required course</p> <p>Credits: 1 English</p>
<p style="text-align: center;">English 10 (1140)</p> <p>English 10 increases the students' knowledge of the world through emphasis on world literature. Students will read and critique short stories, novels, drama, and poetry from a variety of eras and cultures, including those studied in world geography. Students will analyze printed consumer information, develop reading analysis skills, and utilize problem-solving strategies. Students will produce well-organized expository papers and workplace writing which conform to the rules of standard English. They will improve their research skills by using available technology. In all facets of study, students will participate in small- group learning activities.</p>	<p>Grade Level: 10</p> <p>Prerequisites: English 9</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Required course</p> <p>Credits: 1 English</p>
<p style="text-align: center;">English 11 (1150)</p> <p>English 11 is a survey of American literature with an in-depth analysis of the works of major authors. Students will develop writing skills through formal and informal essays related to the literature, critical reviews of supplemental reading, and the development of a research paper. Sentence expansion, word usage, and vocabulary are emphasized, and mechanics are stressed. Students will read technical literature critically, as well as American literature, and will write technically for a publication</p>	<p>Grade Level: 11</p> <p>Prerequisites: English 10</p> <p>Term: Full Year</p> <p>*Assessment: SOL Writing and SOL Reading *Must pass both tests to graduate</p> <p>Required course</p> <p>Credits: 1 English</p>

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AP English 11 (1151)	<p>Grade Level: 11</p> <p>Prerequisites: English 10</p> <p>Term: Full Year</p> <p>Assessment: A.P. Exam</p> <p>Elective course</p> <p>Credits: 1 English 11</p>
<p>This course concentrates on English literature and composition. Poetry, drama, and short fiction from the Anglo- Saxon to the 20th Century Periods will be studied. Advanced grammar study supplements the writing of compositions. Literary analysis will be included in compositions and oral communications. Grammar and mechanics are reviewed, and vocabulary is continually emphasized. Grammar and Composition will also be studied with emphasis on revision for accuracy and clarity of technical writing.</p>	

English 12 (1160)	<p>Grade Level: 12</p> <p>Prerequisites: English 11</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Required course</p> <p>Credits: 1 English</p>
<p>This course concentrates on English literature and composition. Poetry, drama, and short fiction from the Anglo- Saxon to the 20th Century Periods will be studied. Advanced grammar study supplements the writing of compositions. Literary analysis will be included in compositions and oral communications. Grammar and mechanics are reviewed, and vocabulary is continually emphasized. Grammar and Composition will also be studied with emphasis on revision for accuracy and clarity of technical writing.</p>	

Advanced Composition (1177)	<p>Grade Level: 11, 12</p> <p>Prerequisites: English 10</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Elective course</p> <p>Credits: 1 elective</p>
<p>This course concentrates on teaching critical reading and writing skills needed for college preparation courses. The focus is on writing essays, and the primary type of writing students will encounter most often in college. Students write expository and literary essays while learning to employ correct grammar, mechanics and usage.</p>	

Advanced Placement Literature and Composition (1195)	<p>Grade Level: 12</p> <p>Prerequisites: English 11</p> <p>Term: Full Year</p>
<p>The course emphasizes the major literary genres. Students write lengthy literary critiques about most of the studied works and develop skills in critical reading of imaginative and discursive</p>	

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<p>literature. They also write a documented literary research paper. Students may receive college credit by scoring an appropriate grade on the AP English Literature examination.</p>	<p>Assessment: A.P. Exam</p> <p>Elective course</p> <p>Credits: 1 elective/College credit English</p>
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<p>Advanced Placement Language and Composition (1196)</p>	<p>Grade Level: 12</p> <p>Prerequisites: English 11</p> <p>Term: Full Year</p> <p>Assessment: A.P. Exam</p> <p>Elective course</p> <p>Credits: 1 elective/College credit English</p>
<p>This course emphasizes different writing assignments including descriptive, comparison/contrast, process or how-to, précis, formal and informal essays, literary analysis, and poetry. Student write expository and literary essays while learning to employ correct grammar, mechanics, and usage. The major assignment is a documented research paper, with emphasis on proving the thesis statement. This course is intended to be equivalent to a college course.</p>	

<p>Dual Credit English 111/112 Southwest VA Community College</p>	<p>Grade Level: 12</p> <p>Prerequisites: English 11</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Credits: English 12/College credit English</p>
<p>Develops writing ability for study, work and other areas of writing based on experience, observation, research, and reading of selected literature. Guides students in learning writing as a process: understanding audience and purpose, exploring ideas and information, composing, revising and editing. Supports writing by integrating experiences in thinking, listening, and speaking.</p>	

<p>Photojournalism I (1215) II (1216)</p>	<p>Grade Level: 11, 12</p> <p>Prerequisites: Instructor approval</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Credits: 1 elective per level</p>
<p>This course is designed to teach students the fundamentals of journalism, including the development of mass media, the role of the journalist in society, and the function of the high school journalist. The second level is designed to give students practical experience in school publication as an extension of the knowledge they gained in Photojournalism I. Emphasis will be placed on copyright, layout, design, editing, marketing, and distribution. The students publish the school yearbook.</p>	

Mathematics

3 credits of math with one verified unit of credit for the Standard diploma and 4 credits of math with 2 verified units of credit for the advanced studies diploma are required.

At least two different courses from among Algebra I, Geometry, Algebra II, and Algebra Functions are required for the standard diploma and at least three different courses for the Advanced Studies Diploma.

Algebra I Part I	<p>Grade Level: 9</p> <p>Prerequisites: Pre-algebra</p> <p>Term: Full year</p> <p>Assessment: Exam</p> <p>*Credits: Elective (not math)</p>
<p>Algebra I part I and Algebra I Part II is a two year sequence. These courses are the same content as Algebra I divided into two years rather than one. Part I is an elective credit and part II is a math credit. This course includes types of numbers, algebraic vocabulary, properties and operations of numbers, simplifying expressions, solving equations and inequalities, and graphing. Finding and using prime factors, square roots, repeating decimals, as well as using polynomials, rational expressions, and radicals are also part of this course. Mastery of graphing, solving equations with two variables, and solving quadratics is required. The Algebra I Standards of Learning are taught in this course.</p>	

Algebra I Part II	<p>Grade Level: 10</p> <p>Prerequisites: Algebra I Part I</p> <p>Term: Full Year</p> <p>Assessment: Algebra I SOL</p> <p>Credits: Algebra I math credit</p>
<p>Algebra I part I and Algebra I Part II is a two year sequence. These courses are the same content as Algebra I divided into two years rather than one. Part I is an elective credit and part II is a math credit. This course includes types of numbers, algebraic vocabulary, properties and operations of numbers, simplifying expressions, solving equations and inequalities, and graphing. Finding and using prime factors, square roots, repeating decimals, as well as using polynomials, rational expressions, and radicals are also part of this course. Mastery of graphing, solving equations with two variables, and solving quadratics is required. The Algebra I Standards of Learning are taught in this course.</p>	

Algebra I	<p>Grade Level: 8, 9, 10, 11, 12</p> <p>Prerequisites: Pre-algebra</p> <p>Term: Full Year</p> <p>Assessment: Algebra I SOL</p>
<p>This course includes types of numbers, algebraic vocabulary, properties and operations of numbers, simplifying expressions, solving equations and inequalities, and graphing. Finding and using prime factors, square roots, repeating decimals, as well as using polynomials, rational expressions,</p>	

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<p>and radicals are also part of this course. Mastery of graphing, solving equations with two variables, and solving quadratics is required. The Algebra I Standards of Learning are taught in this course.</p>	<p>Credits: Algebra I math</p>
<p>Geometry (3143)</p> <p>The geometry course is a one-year mathematics course that includes both plane geometry and three-dimensional geometry. The course is considered necessary to demonstrate a reasonable knowledge of mathematics for students who plan to pursue a college education. Simple algebraic equations are integrated into the course and presented as a means of solving some geometry problems. Geometric proofs and problem-solving develop analytical reasoning skills and improve the ability to apply logic to analysis of problems. Geometry Standards of Learning are taught.</p>	<p>Grade Level: 9, 10, 11, 12</p> <p>Prerequisites: Algebra I</p> <p>Term: Full Year</p> <p>Assessment: Geometry SOL</p> <p>Credits: Geometry math credit</p>
<p>Algebra II (3135)</p> <p>Algebra II is mandatory for students seeking the Advanced Studies Diploma and for those students planning a higher education in math or science. Concepts of Algebra I are reviewed and strengthened. Emphasis will be placed on the study of complex numbers, coordinate geometry, linear systems, functions, conic sections, logarithms, and an introduction to progressions and series. Algebra II Standards of Learning are taught.</p>	<p>Grade Level: 9, 10, 11, 12</p> <p>Prerequisites: Algebra I, Geometry (grade of C or better)</p> <p>Term: Full Year</p> <p>Assessment: Algebra II SOL</p> <p>Credits: 1 Algebra II math credit</p>
<p>Algebra, Functions, and Data Analysis (3134)</p> <p>Algebra, Functions, and Data Analysis is a course designed to build on previous mathematical courses and to emphasize a deeper understanding of mathematics. This course investigates functions and their behaviors, systems of inequalities, probability, experimental design, and analysis of data. Students will use mathematical modeling to solve problems that require the formulation of linear, quadratic, exponential, logarithmic equations or system of equations. Through the investigation of mathematical models and interpretation/analysis of data from real life situations, students will strengthen conceptual understandings in mathematics and further</p>	<p>Grade Level: 10, 11, 12</p> <p>Prerequisites: Algebra I credit</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Credits: 1 math credit</p>

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<p>develop connections between algebra and statistics. Students will learn to work in groups, as well as individually, to build reasoning and effective problem solving skills. The curriculum for Algebra, Functions and Data Analysis follows the Standards of Learning.</p>	
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<p>Pre-Calculus (3162) Dual Pre-Calculus SWCC 163/164</p>	<p>Grade Level: 10, 11, 12</p>
<p>This course includes an extensive and comprehensive treatment of trigonometry for one semester. The other semester includes algebra topics not covered in previous courses. The course is designed as preparation for math analysis or for freshman mathematics in college. All of the topics will be taught in conjunction with trigonometric tables, scientific calculators and the graphing calculators.</p>	<p>Prerequisites: Algebra II</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Credits: 1 math/6 college credits</p>
<p>Calculus (3177) Dual Calculus SWCC 172/173</p>	<p>Grade Level: 11, 12</p>
	<p>Prerequisites: Pre-Calculus</p> <p>Term: Full Year</p> <p>Assessment: Exam</p> <p>Credits: 1 math/6 college credits</p>

<p>Computer Mathematics (3184)</p>	<p>Grade Level: 11, 12</p>
<p>Computer Mathematics is a board approved class</p>	

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<p>above the level of Algebra and Geometry and can be used to satisfy the mathematics requirements for a standard diploma, modified standard or general achievement diploma. The course uses the graphing calculator as the primary computing device for mathematical problem solving. TI-83 programming basics are taught. Tasks include Input/Output, Formula Problems, Occupational and Consumer Application for everyday life.</p>	<p>Prerequisites: Algebra I, Geometry, or Algebra II</p> <p>Term: Full year</p> <p>Assessment: Exam</p> <p>Credits: 1 math credit for standard diploma</p>
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Science

Three units of science are required for the Standard diploma and four units are required for the Advanced Studies diploma. Selections must include from among at least two different science disciplines for the standard diploma and from among at least three different science disciplines for the advanced studies diploma. One verified unit of credit is required for the Standard diploma and two verified units of credit are required for the advanced diploma.

<p>Earth Science (4210)</p> <p>Earth Science connects the study of the Earth's composition, structure, processes, and history, its atmosphere, fresh water, and oceans, and its place in the universe. This course emphasizes contributions to the development of scientific thought concerning earth and space. Major topics of study include astronomy, geology, meteorology, and oceanography.</p>	<p>Grade Level: 9, 10, 11, 12</p> <p>Prerequisites: None</p> <p>Term: Full year</p> <p>Assessment: Earth Science SOL</p> <p>Credits: 1 science credit</p>
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<p>Biology I (4310)</p> <p>Biology is the study of life and the organization of living systems. Biology begins with the study of the simplest forms of living things, and continues to more complex living systems. Major concepts studied are: the chemistry of life; cell parts and functions; mitosis, meiosis; genetics; classification systems; and a survey of the plant, animal, fungi, Monera, and protist kingdoms.</p>	<p>Grade Level: 9, 10, 11, 12</p> <p>Prerequisites: None</p> <p>Term: Full Year</p> <p>Required course for graduation</p> <p>Assessment: Biology I SOL</p> <p>Credits: 1 science credit</p>
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<p>Biology II – Ecology (4340)</p> <p>Ecology is the study of the relationships between organisms and their environment. This course will</p>	<p>Grade Level: 10, 11, 12</p> <p>Prerequisites: Biology I</p>
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<p>give the student the necessary information to understand the complex arena of environmental concerns, problems, and alternative courses of action.</p>	<p>Term: Full Year Assessment: Exam Credits: 1 science credit</p>
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<p>Biology II – Human Anatomy and Physiology (4330)</p>	<p>Grade Level: 10, 11, 12</p>
<p>This course focuses primarily on human anatomy and physiology, dwelling on the health science aspects of life science. Even current AP biology students would benefit from taking this course if they are considering health-related careers. The class is structured on the lines of a first- year college anatomy course to meet the needs of students entering the fields of nursing, radiology, physical therapy or pharmacology. Biology II covers human organization and anatomical terms, the digestive system and nutrition, the circulatory system, the composition and function of blood, the lymphatic system and immunity, the respiratory system, the urinary system and excretion, the nervous system, the senses, the endocrine system, the musculoskeletal system, and human reproduction and development.</p>	<p>Prerequisites: Biology I Term: Full Year Assessment: Exam Credits: 1 science credit</p>

<p>Chemistry I (4410)</p>	<p>Grade Level: 11, 12</p>
<p>Chemistry is the branch of science that studies the interaction of matter and energy. The characteristics of elements and compounds and how they interact are studied. Problem solving, the practical use of calculators, use of technology (including computers), and chemical reactions are practiced in laboratory activities. Emphasis in laboratory activities is placed on safety, use of laboratory skills, and application of learned material to practical usage and development of proper use of the scientific method.</p>	<p>Prerequisites: Algebra I, lab science Term: Full year Assessment: Chemistry SOL Credits: 1 science credit</p>

<p>Chemistry II (4420)</p>	<p>Grade Level: 12</p>
<p>This course is offered to students who have successfully completed Biology and Chemistry. The course includes advanced topics that have not been covered in depth in the first year course. Topics include organic chemistry, biochemistry, biotechnology, electrochemistry, oxidation/reduction reactions, chemical kinetics,</p>	<p>Prerequisites: Chemistry and Algebra II Term: Full Year Assessment: Exam</p>

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qualitative and quantitative analysis, and environmental chemistry.	Credits: 1 science credit
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Physics (4510) Dual Enrollment SWCC	Grade Level: 12
Physics is a course offered to students who have successfully completed earth science, biology, and chemistry as well as algebra and geometry. The math background is as important a prerequisite as science because the study of physics requires proficient application of mathematical calculations. The course includes Newtonian physics, heat, light, electricity, and magnetism, and is intended to prepare students for higher education. Physics requires frequent demonstrations and laboratory sessions to supplement and clarify the academic presentations.	Prerequisites: Algebra II and lab science Term: Full year Assessment: Exam Credits: 1 high school science/6 college credits

Emergency Medical Technician (EMT) (4610)	Grade Level: 11, 12
EMT is a health science course offered to eleventh and twelfth grade students. The class is designed to prepare students to become emergency medical technicians. Topics covered include preparatory, airway, patient assessment, medical/behavior emergencies, obstetrics, trauma, infants and children, operation, advance airway.	Prerequisites: Biology I and age 16 Term: full year Assessment: Exam Credits: elective credit

Social Studies

Three units of Social Studies are required for the Standard diploma and four units of Social Studies are required for the Advanced Studies diploma. One verified credit is required for the Standard diploma and two verified credits are required for the Advanced Studies diploma.

World Geography (2210)	Grade Level: 9
By studying geography, students are able to see, understand, and appreciate the web of relationships among people, places, and environments. World Geography is presented as a science in which the physical, cultural, political, economic, and historical components of the subject are studied. Characteristics of the world's regions and sub regions, along with the interrelationship between environment and culture, are examined. Emphasis is placed on the development of maps and globe skills, chart and graph interpretation, and critical thinking skills. Also, current events are used to study world	Prerequisites: none Term: Full Year Assessment: World Geo SOL Credits: 1 social studies credit

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problems.	
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World History 1000AD to Present (2342) Required for Advanced Diploma	Grade Level: 10
The study of Western Civilization and other cultural influences on the world. This course will identify the major cultures of the world and will help students explain the significance of these major cultures in the development of world history from prehistory to the present. Factors such as the social, economic, political, cultural, and geographical features of the studied regions are used to achieve this understanding.	Prerequisites: World Geography Term: Full Year Required for Advanced Diploma Assessment: World History SOL Credits: 1 social studies credit

Virginia and United States History (2360)	Grade Level: 11
Virginia and United States History is a required course that surveys the major people and events from the Age of Discovery to the modern era. The Declaration of Independence, the Constitution, the Virginia Declaration of Rights, and the Virginia Statute of Religious Freedom are studied among other major American documents, people and events that impacted our nation. Current events and the relationship between past and present issues are emphasized. Map, cartoon, chart, and graph interpretation, as well as critical thinking and writing skills, are further developed in this course.	Prerequisites: World Geo or World History Term: Full Year Required for graduation Assessment SOL Credits: 1 social studies credit

United States and Virginia Government (2440) Dual Enrollment SWCC	Grade Level: 12
United States and Virginia Government is a course which is designed to encourage high school seniors to develop a more analytical perspective on government and politics in the United States. Senior Government is concerned with the nature of our political system, its development over the past two hundred years, and how it works today. We will examine in some detail the origins of democracy in the United State, political beliefs and behaviors of individuals, political parties, and interest groups, the congress, the Presidency including the bureaucracy, the Judiciary, and civil liberties and civil rights.	Prerequisites: US History Required for graduation Term: Full Year Assessment: Exam Credits: 1 social studies credit/6 college credits

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Sociology (2500)	Grade Level: 12
Sociology is the study of major social problems and their causes, effects, and possible solutions. Students will identify propaganda techniques and will study group dynamics. Criminal justice, social diversity, and personal values will also be examined.	Prerequisites: none
	Term: Full Year
	Assessment: exam
	Credits: 1 elective credit

20th Century Modern/Contemporary Issues/Current Events (2387)	Grade Level: 11, 12
Students will study newsworthy events at the local, state, national, and international level. Events and issues may be controversial. Class discussion and a free exchange of ideas and opinions are encouraged. Newspapers and television news broadcasts will be utilized as well as other information sources. Students will be tested on a weekly basis.	Prerequisites: None
	Term: Full Year
	Assessment: Exam
	Credits: 1 elective credit