FCHS Course Descriptions 2014-2015

Agriculture

8004 Agriscience & Technology  
Grade 8
Through laboratory activities, students apply scientific principles to the field of horticulture, including the areas of floriculture, landscape design, greenhouse operation, nursery plant production, and turf management. They practice safety, develop leadership traits, use plant-growing media, and identify, propagate, and grow horticulture plants in the greenhouse and land laboratory.

8006 Foundations of Agriculture  
Grades: 9-10
This class is for 9th and 10th graders who have not had an agriculture class in 8th grade. 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.

8007 Introduction to Plant Systems  
Grades: 9-12
Suggested prerequisite: Agriscience and Technology (8004) OR Foundations of Agriculture (8006)
Students develop competencies in botany, plant propagation, plant care and selection. Instructional content also includes an introduction to the various divisions of the plant systems industry. Students learn agricultural mechanics applicable to plant systems. This course includes hands-on work at the school farm, with the school's hydroponic system, and in the school's greenhouse.

8008 Introduction to Animal Systems  
Grades 9-12
Suggested prerequisite: Agriscience and Technology (8004) OR Foundations of Agriculture (8006)
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.

8083 Small Animal Care I  
Grades 10-11
Suggested prerequisite: Introduction to Animal Systems (8008)
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.

8012 Agriculture Production Management  
Grade: 11
Suggested prerequisite: Introduction to Animal Systems (8008)
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.
8034 Horticulture Sciences

Grades: 10-12

*Suggested prerequisite: Introduction to Plant Systems 8007*

In this course, students develop the necessary knowledge, skills, habits, and attitudes for entry-level employment and advancement in areas such as floriculture, landscape design, greenhouse operation, nursery plant production, and turf management. They receive instruction in using soil and other plant-growing media and in identifying, propagating, and growing horticultural plants in the greenhouse and land laboratory. This course includes hands-on work at the school farm, with the school's hydroponic system, and in the school's greenhouse.

8014 Operating the Farm Business

Grade: 12

*Prerequisite: Introduction to Plant Systems 8007 OR Introduction to Animal Systems (8008) OR Horticulture Sciences 8034 OR Agriculture Production Management 8012*

Much of the content in this occupational preparation course may be provided through individualized instruction. Students focus on farming, farm management, and occupational experience as they receive instruction in adjusting, operating, and maintaining farm machinery and equipment and in planning and constructing farm buildings and facilities. Continued emphasis is placed on leadership training.

**AUTOMOTIVE TECHNOLOGY**

8506 Automotive Technology I

Grade: 10-12

In this first course of the three-course program, students learn all aspects of repair, safety, and customer service by concentrating on two of the primary ASE/NATEF areas for certification (i.e., areas V. Brakes and VI. Electrical/Electronics). Students who successfully complete this portion of the program will be prepared to take and pass the respective ASE/NATEF exam and will be prepared for postsecondary education opportunities.

8507 Automotive Technology II

Grade: 11-12

In this second course of the three-course program, students learn all aspects of repair, safety, and customer service by concentrating on two of the primary ASE/NATEF areas of certification (i.e., IV. Suspension and Steering and VIII. Engine Performance). Students who successfully complete this portion of the program will be prepared to take and pass the respective ASE/NATEF exam and will be prepared for postsecondary education opportunities. This is a two block class. Prerequisite: Automotive Technology I, 8506. (280 Hours)

8508 Automotive Technology III

Grade: 12

In this capstone course of the three-course program, students master all aspects of repair, safety, and customer service by concentrating on the remaining tasks from the four primary ASE/NATEF areas for certification (i.e., IV. Suspension and Steering, V. Brakes, VI. Electrical/Electronics, and VIII. Engine Performance). Students who successfully complete this program will be prepared to take and pass the respective ASE/NATEF exam and will be prepared for postsecondary education opportunities. Prerequisite: Automotive Technology II, 8507. (280 Hours)
BUILDING TRADES

8515 Building Trades I  Grade: 10-11
Building Trades I prepares students to erect, install, maintain, and repair buildings, and other structures using materials such as metal, wood, stone, brick, glass, concrete and composition substances. Students focus on developing skills in core safety and the masonry, carpentry, electricity, and plumbing professions.

8516 Building Trades II  Grade: 11-12
Building Trades II continues to prepare students to erect, install, maintain, and repair buildings, and other structures using materials such as metal, wood, stone, brick, glass, concrete, and composition substances. Students focus on mastering skills in core safety and the masonry, carpentry, electricity, and plumbing professions. Prerequisite: Building Trades I, 8515. (280 Hours)

BUSINESS & INFORMATION TECHNOLOGY

6115 Principles of Business & Marketing  Grade: 9-10
Students discover the roles of business and marketing in the free enterprise system and the global economy. Basic financial concepts of banking, insurance, credit, inheritance, taxation, and investments are investigated to provide a strong background as students prepare to make sound decisions as consumers, wage earners, and citizens. The real-world impact of technology, effective communication, and interpersonal skills is evident throughout the course. This course also supports career development skills and explores career options.

6120 Economics & Personal Finance  Grade: 10-12
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.

6670 Information Technology Fundamentals  Grade: 8
The focus of the IT Fundamentals course is the introduction of skills related to information technology basics, Internet fundamentals, network systems, computer maintenance/upgrading/troubleshooting, computer applications, programming, graphics, Web page design, and interactive media. Students explore ethical issues related to computers and Internet technology and develop teamwork and communication skills that will enhance their employability.

6630 Design, Multimedia, & Web Technologies (Dual Enrollment)  NOT OFFERED  Grade: 11-12
Students develop proficiency in designing and creating desktop-published projects, multimedia presentations/projects, and Web sites, using industry-standard application software. Students apply principles of layout and design in completing projects. Students create portfolios that include a résumé and a variety of desktop-published, multimedia, and Web-site projects produced in the course. This course alternates with 6621 Office Administration and 6640 Programming. It will be offered during the 2013-2014 school year.
6640 Programming-Game Design & Development (Dual Enrollment)  Grade: 11-12
Students explore computer concepts, apply logic procedures, and implement programming procedures with one or more languages, such as Visual Basic.Net, Java, C#, and C++. Graphical User Interfaces, such as Alice, Game Maker, and Flash, may be used as students design and develop interactive multimedia applications. In addition, HTML or JavaScript may be employed to create Web pages. This course alternates with 6621 Office Administration and 6630 Design, Multimedia, & Web Technologies.

ENGLISH

11201, 11202 English 8 Part I and Part II  Grade: 8
Students may be required to take a two-part English 8 class based on their Reading 7 SOL performance. Students with scores below 375 are required to take this course. This course covers the same material as English 1120 but at a slower pace.

1120 English 8  Grade: 8
The eighth grade curriculum emphasizes the writing process: prewriting, writing, evaluating and revising, proofreading, and publishing. Students will also study basic grammar rules that serve as the foundation for editing. In addition, students will read a variety of literary selections including short stories, poems, plays, novels, and nonfiction pieces with the emphasis on reading comprehension and literary analysis.

11203 English 8 Honors  Grade: 8
English 8 Honors goes beyond the regular English 8 class. The pace will be accelerated and the content will be enriched. Students will be required to read several novels independently throughout the semester. The requirements for enrolling in this class include a recommendation from the 7th grade English teacher, writing folder to be sent to the FCHS English Department, placement based on SOL performance, and an A or B in English 7. Summer reading is required.

1130 English 9  Grade: 9
The ninth grade curriculum emphasizes language, reading/literature, dramatic readings, writing and research, planned oral presentations, and analysis of literature from a variety of cultures and eras. In writing, the student will develop narrative, expository, and informational writings to inform, explain, analyze or entertain. Students will also learn to effectively use print, electronic databases, and online resources to access information, as well as how to credit the sources of both quoted and paraphrased ideas.

11301 English 9 Honors  Grade: 9
Honors is an intensive, in-depth course designed to challenge students and begin to prepare them for advanced English courses, including Dual Enrollment and Honors English in the 12th grade. Students will be thoroughly exposed to and actively engaged in literature, writing, grammar, and other language arts activities. In writing, the student will develop narrative, expository, and informational writings to inform, explain, analyze, or entertain. Students will also learn to effectively use print, electronic databases, and online resources to access information, as well as how to credit the sources of both quoted and paraphrased ideas. Requires a “B” in English 8 to take this class and/or recommendation from 8th grade English teacher, placement based on English 8 SOL. Summer reading is also required.
1140 English 10  
Grade: 10

English 10 students will continue to develop skills to be effective communicators. Students will read and critique many different types of literature, including informational material, poetry, novels, plays, and short stories. These readings will be used to generate writing ideas for both informal (journals, summaries, and critiques) and formal writing (literary and research essays) assignments. Student writings will include several expository papers, a research paper, and a few creative works. Students will focus on editing for correct grammar, capitalization, punctuation, spelling, sentence structure, and paragraphing in their work. In addition, students will be asked to complete an oral report for the class.

11401 English 10 Honors  
Grade: 10

Honors English 10 goes beyond the regular English 10 class. It adds an intense study of vocabulary and expands reading skills through 4-5 classic novels. Students will be taking the End of Course SOL Writing Test within the first 9 weeks of class. Requires an “A” or “B” in English 9 and/or a recommendation from 9th grade English teacher. Summer reading is also required.

1150 English 11  
Grade: 11

English 11 students will continue to develop communication skills, prepare clear and accurate personal, business, and technical writing, and develop documented expository and persuasive compositions. Students read and study a variety of American literature and examine relationships among American literature, history, and culture. Students research, analyze, synthesize, and organize information in order to write, revise, and edit a documented paper, using available technology, and adhering to MLA documentation requirements.

11951 AP English Literature and Composition  NOT OFFERED  
Grade: 11

Requires an A or B in English 10 and/or a recommendation from 10th grade English teacher. Students must have passed the Writing SOL to take this course. Advanced Placement English Literature and Composition is designed to challenge the student’s ability to think critically, to analyze and evaluate literature and its literary devices, and to write analytical essays effectively. The course draws from a diverse selection of literature from various genres, eras, topics, themes, and authors from an array of backgrounds, ethnicities, and cultures. The Advanced Placement English Literature and Composition course prepares students for the College Board Advanced Placement English Literature and Composition Exam. Student work will be required outside of class time.

1160 English 12  
Grade: 12

In English 12 the student will read and analyze the development of British literature and literature of other cultures. Writing will consist of expository and informational writings, as well as a well-documented research paper and working resume. Students will demonstrate correct usage of grammatical conventions in their papers through study, practice, and revising. Finally, students will use organizational skills, audience awareness, and both verbal and nonverbal presentation skills to give and evaluate a major formal presentation.

11602 English College Composition I, II  
Grade: 11, 12

A major objective of Freshman Composition 111 and 112 is to develop students' personal voices as readers and writers. In doing so, students will aim at understanding the “textual” environments surrounding us, environments such as literature, journalism, and the Internet. Students will focus on communication as a social process that requires an interaction of the individual and his/her environment. In Freshman Composition students will write several papers, many of which will require extensive research. Students are given a class syllabus and class schedule at the start of the semester explaining all guidelines, rules, and assignments of the course and are expected to follow these materials, as college students in any composition class must. Successful completion of this class will count as six semester hours towards a college degree. The course is offered through New River Community College and is accepted at most colleges as two Freshman English courses. Requires placement test given by NRCC and “B” in English 11, previous SOL performance, and receive a recommendation from English 11 teacher. If
FAMILY AND CONSUMER SCIENCE

8245 Family & Consumer Sciences Exploratory Grade: 8
Family and Consumer Sciences Exploratory provides a foundation for managing individual, family, career, and community roles and responsibilities. Students focus on their individual roles in the community as well as how the community influences individual development. Students develop change-management and conflict-resolution skills and examine how global concerns affect communities. In addition, students enhance their knowledge of nutrition and wellness practices and learn how to maximize consumer and family resources.

8250 Introduction to Culinary Arts Grade: 10-12
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.

8275 Culinary Arts I Grade: 11only
Students plan, select, store, prepare, and serve food; study basic nutrition, sanitation, and food safety (HACCP); the use and care of commercial equipment; and the operation of institutional food establishments. Teachers highlight the basic skills of mathematics, science, and communication when appropriate in content. (280 Hours)

8276 Culinary Arts II Grade: 12
Culinary II gives students hands-on experience preparing customer orders for the community as well as gives them the opportunity to work on individual projects. Students learn about restaurant positions, menu planning and special diets. Critical thinking, practical problem solving, and entrepreneurship opportunities within the field of culinary arts are emphasized. ServSafe certification that is used throughout the industry is also a component of this course. This is a two block class. Prerequisite: Culinary Arts I, 8275. (280 Hours)
FINE ARTS

9120 Foundation Art I  
Grades: 9-12
The class concentrates on drawing and color as a means to study what one sees and to translate that sight to visual form. Design, color use, and art as a personal statement are emphasized. Students concentrate on two-dimensional studies in Art 1. Material covered in the course trains the student to "see" in a different perceptual form. The material is the basis for advanced work in all forms of art. This class must be successfully completed before any other art class can be taken.

9130 Art II-Advanced Drawing  
Grades: 10-12
The class emphasizes drawing at a more advanced level using a variety of drawing materials. Studies range from abstract to realistic, and cover a wide range of subject matter. The class begins with a review of composition principles and elements, design and art history. Work of individual artists is studied throughout the year. Prerequisite: Foundation Art 9120

9140 Art III-Sculpture  
Grades: 10-12
The class emphasizes three-dimensional forms and experiments with a variety of materials. Studies range from abstract to realistic. The class begins with a review of composition principles and elements, design and art history. Work of individual artists is studied throughout the year. Prerequisite: Foundation Art 9120

9147 Painting  
Grades: 10-12
The class explores painting expressions from abstract to naturalistic by using color techniques of tempera, watercolor, and acrylic paint. The class begins with a review of composition principles and elements, design, and art history. Work of individual artists are studied throughout the year. The use of art talents to improve the living environment is explored by developing painting projects throughout the school facility. Prerequisite: Foundation Art 9120

9145 Pottery  
Grades: 10-12
The class emphasizes the techniques of pottery building. Studies cover a range of methods from elementary hand building to throwing on the wheel. Both functional and sculptural forms are explored. The student works with relief as well as free-standing forms. Art history is explored by viewing the use and approach of pottery by different cultures. These exercises are inter-woven throughout the year. Prerequisite: Foundation Art 9120

9160 Crafts & Design  
Grades: 10-12
The class begins with a review of composition principles and elements, design, and art history. Work of individual artists is studied throughout the year. The class will focus on crafts and product quality. The use of art talents to improve the living environment is explored by developing painting projects throughout the school facility. Prerequisite: Foundation Art 9120

9232 Beginning Band-Marching  
Grade: 8
Students will develop the principles used in modern marching band ensembles, and increase the level of their physical endurance and musicality.

9234 Advanced Band-Marching  
Grades: 9-12
This competition-oriented ensemble will learn the art of visual and musical performance. The students will present a competition show of the highest degree for the purpose of competing against other schools and entertaining the crowd at football games. Precision marching, quality musicianship and physical endurance will be learned in a military-style format.
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<th>Course Code</th>
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<th>Grade(s)</th>
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<tbody>
<tr>
<td>9233</td>
<td>Beginning Band-Concert</td>
<td>8</td>
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<td>92331</td>
<td>Advanced Band-Concert</td>
<td>9-12</td>
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Students will learn the principles of intonation, breathing, and listening while performing in a wind band ensemble. The students will be introduced to age appropriate music of a high standard. Performances will include two concerts as well as the Virginia Music Educators Association Concert Festival.

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<th>Course Name (Dual Enrollment)</th>
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<tr>
<td>9222</td>
<td>Music Appreciation</td>
<td>11-12</td>
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This class is an introductory level to the art of music. No prior knowledge of music is required. The objective for this class is to provide all students with an opportunity to learn about a wide variety of styles of music and the elements that are used to create them.

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<tr>
<td>9297</td>
<td>Percussion Lab</td>
<td>9-12</td>
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This class is an introductory level to percussion performance. Opportunities to learn about and play a variety of percussion instruments will be provided. No prior knowledge of music is required. By the end of the class students will have a working knowledge of percussion instruments, performance practices and basic music reading skills. This class is not for students already in band.

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<tr>
<td>9260</td>
<td>Beginning Chorus</td>
<td>8</td>
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<tr>
<td>9285</td>
<td>Chorus</td>
<td>9-12</td>
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Chorus emphasizes fundamental vocal development, traditional notation, and ensemble singing. These topics require performance, creativity, and investigation at a rudimentary level. Opportunities are provided for student exploration of ways in which the content of other arts and disciplines are related to music. Students taking chorus for several years will continue proficiency in ensemble singing and individual performance. These students are eligible to audition for several special ensembles—The Madrigal Singers and a Broadway musical—as well as district and state choirs.

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<tr>
<td>1410</td>
<td>Beginning Theatre</td>
<td>9-12</td>
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<td>1420</td>
<td>Theatre</td>
<td>10-12</td>
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This class will give practical experience on stage in a comfortable and non-threatening environment. There will be emphasis on developing methods of responding thoughtfully to theatrical performances and productions. Emphasis will be on performance techniques, advanced exploration of character, theatrical movement and styles, and advanced ensemble work. Memorization of lines is expected. The results should be a wonderful shared experience, finely honed acting skills and impressive public performance. Additionally, there will be opportunities to explore directing and independent production work. Technical Theatre components include theatrical safety, technical terminology, basic scene painting, elements of lighting and sound. Prerequisite: Take 1410 before taking 1420

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<td>1446</td>
<td>Film Study</td>
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This course explores the history of movies from the silents to the present through viewing selected material representing different periods of history, styles, and genres; through reading about the medium; and through evaluating material presented to the public of today by studying reviews and seeing current releases. This course fulfills the fine arts requirement.
FOREIGN LANGUAGE

51045504 Exploratory French/Spanish  Grade: 8
Exploratory French/Spanish is a one-semester course providing an introduction to the French and Spanish language and culture. Students will begin to develop the three modes of communicative competence: interacting with other Spanish/French speakers, understanding oral and written messages in Spanish/French, and making oral and written presentations in Spanish/French. Students will survey aspects of the history, culture, geography, and daily life in French and Spanish-speaking countries. The introductory nature of the course permits students to become acquainted with French and Spanish, to strengthen skills in the acquisition of a foreign language; however, it is not a prerequisite for Level I study. This course could help a student choose which of the two languages they wish to pursue in the future.

5110 French I  Grades: 8-12
The French I curriculum is designed to introduce students to the language and culture of France and other French-speaking countries. The course will cover the basic grammar and vocabulary used in day-to-day communication along with listening, reading and writing skills, and correct pronunciation. Students will also be exposed to different aspects of culture in the francophone world. It is recommended that any incoming 8th grader signing up for this class have a strong academic focus and is ready for a “for credit” high school class, with a final exam.

5120 French II  Grades: 9-12
The French II curriculum is designed to continue students' exposure to practical, conversational French as well as the culture of France and other francophone countries. Students will continue to learn basic grammar and vocabulary used in every day communication along with listening skills, reading skills, writing skills and correct pronunciation. At this level there is increasing emphasis on students’ ability to write and converse in French. Students will also be exposed to French slang as appropriate. We will continue to explore different aspects of culture in the francophone world. It is highly recommended that students attain a “C” or better in French I before taking this class. Prerequisite: French I

5130 French III  Grades: 10-12
The French III curriculum is designed to continue students' exposure to practical, conversational French as well as the culture of France and other francophone countries. As in French I and II, there is a continuing emphasis on students' abilities to write and converse in French. We will continue to explore different aspects of culture in the francophone world as well. We will read the well known classic, The Little Prince, in French. We will also memorize six poems in French, during the last six weeks. It is highly recommended that students attain a grade of “C” in French II before taking this class. Prerequisite: French II

5140 French IV  Grades: 11-12
Students in this class will finish the study of grammar they began during their first three years of study, and then move on to the following intensive cultural studies. They will study French history, geography, art, and literature, with all of the reading done in French. The study will begin in prehistoric times, and continue into the 17th century. Due to the nature of the course, there will be a heavy emphasis placed on reading comprehension and written French. This class is taught as an independent study; therefore, students should be highly motivated and feel comfortable working on their own. This is an honors class, and students should have a strong interest in French, a good work ethic and A’s or B’s in previous French classes. Prerequisite: French III.
5510 Spanish I Grades: 8-12
This course is an introduction to the Spanish language and Hispanic culture. Students will be introduced to Spanish grammar, basic verb tenses, and practical vocabulary. The goal is to develop basic oral and written communication skills in the Spanish language, as well as to develop an appreciation and understanding of the Hispanic culture, both in Spain and in the Americas. The course places an emphasis on correct pronunciation, listening comprehension, vocabulary development, learning the fundamentals of verb conjugation, and the formulation of simple complete and grammatically correct Spanish sentences. It is recommended that any incoming 8th grader signing up for this class have a strong academic focus and is ready for a “for credit” high school class, with a final exam.

5520 Spanish II Grades: 9-12
This course is a continuation of Spanish I and is designed for the student who wants to reinforce the skills learned in the previous class and learn new grammar, verb tenses and vocabulary. The goal is to develop oral and written communication skills in the Spanish language as well as to develop an appreciation for the Hispanic culture. The course places an emphasis on correct pronunciation, listening comprehension, vocabulary development, the use of idiomatic expressions, and the formulation of complete and grammatically correct sentences. It is highly recommended that students attain a “C” or better in Spanish I before taking this class. Prerequisite: Spanish I

5530 Spanish III Grades: 10-12
This course is a continuation of Spanish II and is designed for the student who wants to reinforce the skills learned in previous classes and learn new grammar, verb tenses and vocabulary. The goal is to develop oral and written communication skills in the Spanish language as well as to develop an appreciation for the Hispanic culture. The course places an emphasis on correct pronunciation, listening comprehension, vocabulary development, the use of idiomatic expressions, and the formulation of complete and grammatically correct sentences. It is highly recommended that students attain a “C” or better in Spanish II before taking this class. Prerequisite: Spanish II

5540 Spanish IV Grades: 11-12
Students will continue to develop their proficiency in the three modes of communicative competence: interacting with other Spanish speakers, understanding oral and written messages in Spanish, and making written presentations in Spanish. They will improve their ability to comprehend spoken and written Spanish texts from a variety of authentic sources. This class is taught as an independent study, therefore, students should be highly motivated and feel comfortable working on their own. This is an honors class, and students should have a strong interest in Spanish, a good work ethic and A’s or B’s in previous Spanish classes. Prerequisite: Spanish III

HEALTH AND MEDICAL SCIENCES

8302 Introduction to Health & Medical Science Grades: 9-12
This course introduces the student to a variety of health care careers and develops basic skills required in all health and medical sciences. It is designed to help students understand the key elements of the U.S. health care system and to learn basic health care terminology, anatomy and physiology for each body system, pathologies, diagnostic and clinical procedures, therapeutic interventions, and the fundamentals of traumatic and medical emergency care. Throughout the course, instruction emphasizes safety, cleanliness, asepsis, professionalism, accountability, and efficiency within the health care environment. Students also begin gaining job-seeking skills for entry into the health and medical sciences field. Students spend time at Floyd Elementary School practicing workplace readiness skills in a hands-on environment. In addition, instruction may include the basics of medical laboratory procedures, pharmacology fundamentals, biotechnology concepts, and communication skills essential for providing quality patient care.
8360 Nurse Aide I
Nurse Aide I, offered as an occupational preparation course beginning at the 11th-grade level, emphasizes the study of nursing occupations as related to the health care system. Students study normal growth and development, simple body structure and function, and medical terminology and are introduced to microbes and disease. They receive elementary skill training in patient-nursing assistant relationships; taking and recording of vital signs; cardiopulmonary resuscitation; and bathing, feeding, dressing, and transporting of patients in hospitals and nursing homes. Limited on-the-job instruction in nursing homes and hospitals is part of the course. This course can be used as an introduction to practical nursing or to prepare the student for Nurse Aide II so that all competencies for a certified nursing assistant are met.
Recommended (not required) prerequisite(s): Introduction to Health and Medical Sciences 8302

8362 Nurse Aide II Dual Enrollment
Nurse Aide II is an occupational preparation course, emphasizing advanced skill training in areas such as catheter care, range of motion, bowel and bladder training, care of the dying, selected procedures for maternal and infant care, and admission and discharge procedures. Students learn diseases and body systems as related to advanced clinical care of the acute medical-surgical patient, the chronically ill, and the elderly. On-the-job instruction in a licensed nursing home is part of the course. Upon completion of the nurse aide program, the student is eligible to take the nurse aide certification exam that leads to employment as a certified nurse aide in hospitals and nursing homes. This a dual-enrollment course offered through New River Community College; students earn 5 college credits upon successful completion of the course. This is a two-block class.
Required prerequisite: Nurse Aide I, 8360. Students must complete Nurse Aide 1 with a “C” average or greater to advance to the Nurse Aide II class.

MATHEMATICS

3112 Math 8 NOT OFFERED
Grade: 8
This course is designed to prepare students for success in Algebra 1 while simultaneously reviewing the SOL requirements for all 8th graders. Concepts covered, but not limited to, include geometry, general mathematics, probability and statistics, and algebraic concepts. Students will take the Math 8 SOL test upon completion of this course.

31121, 31122 Math 8 Part I and Part II
Grade: 8
Students may be required to take a two-part Math 8 class based on SOL performance in elementary school. Math 8 Part I and Part II, offered in two semesters, covers the same material as the one semester course but at a slower pace. Time is allowed for more extensive review of the concepts covered in the one semester course. Students will take the Math 8 SOL upon the successful completion of Part II. The next course taken should be Algebra I Part I and Part II.

3130 Algebra I
Grade: 8-12
Students will study topics in Algebra including data relationships, graphing, order of operations, operations on integers, properties of mathematics, matrices, functions, relations, modeling and solving equations, inequalities, probability, percents, linear equations, slope, rate of change, and direct and indirect variations. Becoming proficient with the graphing calculator is also a goal. This is a one semester course and students will take the Algebra I SOL test upon completion. In order to enroll in the one semester Algebra I course, students should have passed Math 8 with at least a “B” average, placement based on SOL performance and approval of teacher.
3131 Algebra I Part I  Grades:  9-12
3132 Algebra I Part II  Grades:  9-12
Algebra I (Part I) is designed to reinforce basic math skills and build upon the student's ability to solve problems using algebraic concepts. Topics include operations with signed numbers, solving equations, functions, graphing functions, laws of exponents, and operations with polynomials. The course is also designed to allow students who have more difficulty with math time to master abstract mathematical concepts. Students must complete this course to take Algebra I (Part II). Algebra I (Part II) is designed to continue the development of math skills necessary for basic problem-solving using algebraic concepts. Topics include a review of material covered in Algebra I (Part I), slope, writing equations of straight lines, solving systems of equations, and solving quadratic equations. Like Algebra I (Part I), this course is designed to allow students who have difficulty with math to master abstract mathematical concepts. Students must complete this course successfully before they can take Geometry. Students will take the Algebra I SOL test upon completion of this course. Students will receive one credit in Algebra I after completing Part I and II.

3143 Geometry  Grades:  9-12
This course is for students who have successfully completed Algebra I. Both plane and solid geometry are studied. The many aspects of geometry will include: theory and application, informal and formal reasoning, symbolic and visual thinking, coordinate and transformational methods. Geometry provides the students with many opportunities to solve equations and to apply other topics covered in Algebra. In order to enroll in the one semester geometry class it is recommended that the student earn at least a “C” average in Algebra I and pass the Algebra I SOL. Students will take the Geometry SOL test upon completion of this course. Prerequisite: Algebra I

3144, 3145 Geometry Part I and Part II  Grades:  9-12
The same material is covered as in the one semester Geometry class but at a slower pace. This allows for more discussion of the topics and more practice. The Geometry SOL test is given at the end of the Part II course. Students will receive one credit after completing both Part I and II. Prerequisite: Algebra I

31431Geometry Honors  Grade:  9-11
This course covers both plane and solid geometry. The concepts covered include, but are not limited to, theory and application, informal and formal reasoning, symbolic and visual thinking, coordinate and transformational methods. This class will have an accelerated pace and cover the topics in greater depth. In order to take this class, students must have at least a “B” in Algebra I and a strong SOL score. Prerequisite: Algebra I

3134 Algebra, Functions, and Data Analysis  Grades:  10-12
Algebra, Functions and Data Analysis (AFDA) is a course about mathematical modeling and data analysis. Students will study functions and their behaviors, systems of inequalities, probability, experimental design and implementation, and analysis of data. Data will be generated by practical applications arising from science, business, finance, and other real-world phenomena. Students will solve problems that require the formulation of linear, quadratic, exponential, or logarithmic equations or a system of equations. Through the investigation of mathematical models and interpretation and analysis of data from real life situations, students will strengthen conceptual understandings in mathematics and further develop connections between algebra and statistics. Students should use the language and symbols of mathematics in representations and communication throughout the course. Prerequisite: Algebra I, Geometry.

3135 Algebra II  Grades:  9-12
Algebra II reviews fundamental concepts acquired in Algebra I and develops those concepts to a more advanced degree. The student will solve practical problems by applying advanced algebraic concepts and by using the graphing calculator to solve and verify solutions. In order to enroll in the one semester Algebra II course, it is recommended that the student earn at least a “C” average in Geometry and pass the Geometry SOL. Students will take the Algebra II SOL test upon completion of this course. Prerequisite: Algebra I, Geometry
3135 Algebra II Honors  NOT OFFERED  Grades: 9-12
Algebra II reviews fundamental concepts acquired in Algebra I and develops those concepts to a more advanced degree. The student will solve practical problems by applying advanced algebraic concepts and by using the graphing calculator to solve and verify solutions. Algebra II Honors follows the Standards of Learning guidelines of Algebra II. In addition, topics that are not normally covered in the regular Algebra II course that will further prepare students for higher-level mathematics classes will be taught. Students will explore the development and proofs of formulas and more advanced problems will be solved. Prerequisite: Algebra I, Geometry with at least a B in Geometry and a strong score on the Geometry SOL.

3137 Advanced Algebra & Trigonometry  Grades: 10-12
This course is designed to apply the concept of the functions from Algebra to observations made in Geometry, and to explore and extend the mathematics that result from connecting material from these past courses. Trigonometry has many applications in science and engineering, and is the basis of many challenging topics in Calculus and other college-level mathematics courses. In order to enroll in this class, it is recommended that the student earn at least a “C” in Algebra II and pass the Algebra II SOL. This is a weighted class. Prerequisite: Algebra II

3162 Pre-Calculus (Dual Enrollment)  Grades: 11-12
This is a thorough course designed to prepare students in the necessary topics for many college level mathematics courses and/or AP Calculus. Students will investigate many types of functions and their graphs as well as beginning the calculus topics of limits and differentiation. A minimum of a B average is recommended in all previous math courses including Advanced Algebra & Trig to continue in Calculus. This is a weighted course. Prerequisite: Advanced Algebra & Trigonometry. Students must take a placement test at NRCC.

3177, 31771 AP Calculus  Grade: 12
AP Calculus is a rigorous two semester course designed to prepare students for engineering, economics, life sciences, mathematics, and physical sciences. AP Calculus is the same freshman engineering calculus course taught at most universities. A minimum of a “B” average is recommended in all previous math courses including Advanced Algebra & Trig and Calculus. This is a weighted course. Students take the AP exam in the spring. Prerequisite: DE Pre-calculus
PHYSICAL EDUCATION

7200 Health & PE 8 Boys
72001 Health & PE 8 Girls
Grade: 8
Health 8 continues the process of educating students in the importance of proper mental and physical health. Systems of the body and their functions, drug, alcohol, and tobacco education, personal hygiene, proper diet and exercise programs, social health and respect for others are areas that are taught. The Physical Education curriculum will be comprised of a variety of team sports, lifetime and leisure sports, and activities designed to promote general physical fitness. For each unit taught, the students will develop an understanding and appreciation of the subject matter, develop basic skills, and observe safety measures.

7300 Health & PE 9 Boys
73001 Health & PE 9 Girls
Grade: 9
The Health component of PE 9 investigates responsibility for safeguarding the health of the public by studying the nature of infectious diseases, the body's defense against infection, and prevention of infectious disease. (Special attention is given to sexually transmitted diseases). The Physical Education curriculum will be comprised of a variety of team sports, lifetime and leisure sports, and activities designed to promote general physical fitness. For each unit taught, the students will develop an understanding and appreciation of the subject matter, develop basic skills, and observe safety measures.

7405 Health & PE/Driver's Education Boys
74051 Health & PE/Driver's Education Girls
Grade: 10
Students will learn safe driving techniques through a classroom experience. Students will also be exposed to physical activities that will promote lifetime sports and wellness. Prerequisite: Health & PE 9

76401 Advanced PE (Football)
This course is geared for students who would like to learn more about football and improve their football knowledge and skills.

76402 Advanced PE (Basketball)
This course is geared for students who would like to learn more about basketball and improve their basketball knowledge and skills.

7640 Advanced Physical Education
Grades: 11-12
Fitness and Conditioning continues the process of helping students develop overall fitness. The emphasis is on improvement in the areas of strength, agility, endurance, explosive power, flexibility, and speed.
4125 Physical Science 8
Grade: 8
Physical Science connects two physical science fields: chemistry & physics. The course builds upon skills of systematic investigation with a clear focus on variables and repeated trials. Emphasis is given to the organization and use of the periodic table; physical and chemical changes; nuclear reactions; temperature and heat; sound; light; electricity and magnetism; and work, force, and motion. Students will take the Science 8 SOL test upon completion of this course.

4210 Earth Science I
Grades: 9-12
Earth Science connects the study of Earth’s composition, structure, processes, and history. The course builds upon skills of the interpretation of maps, charts, tables, and profiles; use of technology to collect, analyze, and report data; laboratory techniques, and the utilization of science skills in systematic investigation. Emphasis is given to plate tectonics; the rock cycle; Earth history; the oceans; the atmosphere; weather & climate; and the solar system & universe. Students will take the Earth Science SOL test upon completion of this course.

4310 Biology I
Grades: 10-12
Biology is a life science that provides a detailed understanding of living systems while examining alternative scientific explanations, conducting laboratory experiments, incorporating scientific research that validates or challenges ideas, and analyzing & reporting information. Emphasis is given to biochemical life processes; cellular organization; mechanisms of inheritance; dynamic relationships among organisms; and the change in organisms through time. Students will take the Biology SOL test upon completion of this course.

4320 Biology II
Grades: 11-12
Biology II applies the techniques and approach of the experimental sciences while delivering an advanced understanding of biological processes and biochemical reactions of living things. Content builds upon understandings from the organism level to the biosphere with emphasis on molecular & cellular biology; population interaction; and global ecology. Offered 2014-2015
Prerequisite: Biology I; Recommended: Chemistry I

4330 Human Anatomy and Physiology
Grades: 11-12
Human Anatomy and Physiology delivers an advanced understanding of the human body while providing a comparative study of the structure & function of body systems and the means by which humans carry out life functions. Offered 2015-2016
Prerequisite: Biology I; Recommended: Chemistry I

4340 Zoology
Grades: 11-12
The Zoology course is a semester lecture-laboratory science-elective designed to provide a well-rounded and challenging academic experience for students. Zoology is a laboratory-based course that will survey the nine major phyla of the Kingdom Animalia. Morphology, taxonomy, anatomy, and physiology will be investigated. Comparative studies may be addressed during laboratory observations and dissections. This course is designed to educate students in many different areas associated with aquatic animals and habitation, and the processes thereof. Students will be exposed to the following units of study: 1) Life Science 2) Physical Science 3) Earth and Space Science
Prerequisite: Earth Science I or Biology I

4410 Chemistry I
Grades: 10-12
Chemistry I is a physical science that investigates the interaction of matter and energy through observation, mathematical applications, and laboratory techniques. Emphasis is given to the Periodic Table; atomic structure;
physical & chemical properties; bonding, naming, chemical equations; gas laws; acids & bases; solutions; and thermochemistry, and organic chemistry. Students will take the Chemistry SOL test upon completion of this course. Recommended: minimum of a “C” in Algebra I

**4420 Chemistry II**  
Grades: 11-12  
Chemistry II provides an advanced understanding and approach to studying chemistry principles through laboratory work, manipulation of chemical quantities; and problem-solving applications. Emphasis is given to practical applications from environmental, organic, and biochemistry content areas.  
Prerequisite: Chemistry I  
Recommended: Biology I

**4510 Physics I**  
Grades: 11-12  
Physics builds upon basic physical science principles by exploring the nature and characteristics of energy and its dynamic interaction with matter through laboratory work and problem-solving applications. Emphasis is given to force & motion; energy transformations; wave phenomena & the electromagnetic spectrum; electricity; fields; and non-Newtonian physics. Practical application is given to other disciplines of science; technology; engineering; and mathematics.  
Prerequisite: minimum of a “C” in Algebra II

**SOCIAL STUDIES**

**2342 World History II**  
Grades: 9-10  
World History II is a survey course designed to explore the historical development of people, places and patterns of life from 1500 A.D. to the present. Emphasis is placed on the historical development of Western Europe. Study of historically significant people and events of the 19th and 20th centuries will be emphasized for their strong connections to contemporary issues. World History II includes an end of course SOL test.

**23421 World History II Honors**  
Grades: 10  
World History II is a more in depth course designed to explore the historical development of people, places and patterns of life from 1500 A.D. to the present. Emphasis is placed on the historical development of Western Europe. Study of historically significant people and events of the 19th and 20th centuries will be emphasized for their strong connections to contemporary issues. Student must have earned a “B” in World Geography to take this class. World History II includes an end of course SOL test.

**2210 World Geography**  
Grades: 8-9  
The focus of World Geography is the study of the world's peoples, places and environments, with an emphasis on world regions. Students will study the world's population and cultural characteristics, land forms and climates, economic development, and migration and settlement patterns. Particular emphasis is placed on students' understanding and application of geographic concepts and skills for their daily lives. This course includes an end of course SOL test.

**22101 World Geography Honors**  
Grades: 9  
The focus of World Geography is a more in depth study of the world's people, places and environments, with an emphasis on world regions. Students will study the world's population and cultural characteristics, land forms and climates, economic development, and migration and settlement patterns. Particular emphasis is placed on students' understanding and application of geographic concepts and skills for their daily lives. To enroll in this course, students must have earned a “B” or better in World History I, placement based on SOL performance. This course includes an end of course SOL test.
2360 VA & US History
Virginia and United States History is a survey course that includes the historical development of American ideas and institutions from the Age of Exploration to the present. The course will provide the student with a basic knowledge of American culture through a chronological study of major issues, movements, people and events in U.S. and Virginia history. Virginia and United States History includes an end of course SOL test.

2319 AP Virginia and US History
Advanced Placement U.S. History is a college level course that combines learning factual knowledge with developing analytical skills. Emphasis is given to developing interpretive writing skills while assessing historical material according to relevance, reliability, and importance by weighing the evidence presented in historical scholarship. Heavy emphasis is given to essay writing and developing superior writing skills. The course includes materials from discovery and settlement to present day America. A rapid pace of study must be maintained. Students enrolled in Advanced Placement U.S. History should exhibit above average reading comprehension, writing, and time management skills. They should have a desire to delve into history beyond the basic level of understanding. Student work will be required outside of class time. Requires a “B” in World Geography or World History II and pass the SOL.

2440 VA & US Government
Virginia and United States Government is a course designed to provide students with the knowledge that will enable them to participate effectively in civic life. Students will examine fundamental constitutional principles, the rights and responsibilities of citizenship, the structure and function of governments at each level, and the operation of the United States market economy. Virginia and United States Government does not include an end of course SOL test.

24401 VA & Government Honors
Virginia and United States Government Honors covers the same topics as mentioned in the course description for 2440 VA & US Government. This course provides a more in-depth study with a heavier concentration on writing. Requires B in Virginia and US History and pass the VA/US History SOL.

2500 Sociology
Sociology is the scientific study of social structure (human social behavior). The student will explore Sociology through the research of various cultures, socialization, social structure, societies, groups, and formal organizations. They will also focus on social equalities, gender, age, deviance and social control, social institutions and social change.

SPECIAL EDUCATION DEPARTMENT

Special Education courses are available in several areas based upon a student's IEP. Please meet with your child's IEP coordinator for clarification.
TECHNOLOGY EDUCATION

8435 Technical Drawing & Design  Grade: 9-11
In this foundation course, students learn the basic language of technical design, while they design, sketch, and make technical drawings, illustrations, models, or prototypes of real design problems. Students develop spatial ability as they apply mathematical concepts to visual representations. The course is especially recommended for future engineering and architecture students.

8436 Engineering Drawing  Grade: 10-12
Students explore the engineering design process and use a graphic language for product design, technical illustration, assembly, patent, and structural drawings. They increase their understanding of drawing and the design process and techniques learned in the prerequisite course. Students use computers, calculators, and descriptive geometry and adhere to established standards to solve design problems. This course is taught in alternating years with 8437 Architectural Drawing and will be offered during the 2014-2015 school year. Prerequisite: Technical Drawing & Design, 8435.

8437 Architectural Drawing  Grade:10-12
Students explore architectural design foundations and increase understanding of working drawings, construction techniques, and codes regulating building design. They learn the design process and apply the elements and principles of design to architectural projects. Through producing models and illustrations of all aspects of a building, students create architectural design solutions using CADD (computer aided drafting and design). This course is taught in alternating years with 8436 Engineering Drawing and will be offered during the 2015-2016 school year. Prerequisite: Technical Drawing & Design, 8435.

8455 Imaging Technology  Grade: 9-12
Imaging Technology introduces students to the basic principles of photography while providing a strong emphasis on digital imaging. Students study the development of photography as a communication medium and its evolution into the digital realm. Students learn to use image-editing software to manipulate digital images.

8497 Video & Media Technology  Grade: 10-12
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.

WELDING

8672 Welding I (DE)  Grade: 12
8673 Welding II (DE)
Welding is required by a wide variety of industries, anywhere fusible materials and high heat are needed to manufacture, repair, or alter tools and products. Professional welders are in high demand and can earn accordingly. Students in Welding I are taught to use manual welding, cutting, and electric arc welding processes to fabricate and weld metal parts according to diagrams, blueprints, and specifications. Students will also receive all safety-related practices and techniques, including the OSHA 10 card. Students in Welding II learn to fine-tune their craft and to perform V-groove welds in all positions, using multiple welding processes. Students prepare to pass relevant industry certifications. Student must take and pass placement test from New River Community College.
The Virginia Virtual Advanced Placement School (VVAPS) offers online AP and foreign language courses to students across the commonwealth and nation. Each course contains video segments, audio clips, whiteboard and online discussions as well as text. E-Teachers are available for telephone conversations with students throughout the school day. VVAPS classes offer a rich multimedia learning environment that appeals to a variety of learning styles. VVAPS courses can be scheduled flexibly throughout the day, as courses do not have to be taken in 'real' time. Upon completion of a course, students take the AP exam. Completion of the course and passing the AP exam enables a student to earn college credit. Courses available are:

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Availability</th>
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<tbody>
<tr>
<td>9151</td>
<td>Advanced Placement Art History</td>
<td>Fall Block, Full Year, Spring Block</td>
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<tr>
<td>4370</td>
<td>Advanced Placement Biology</td>
<td>Fall Block, Full Year, Spring Block</td>
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<tr>
<td>3177</td>
<td>Advanced Placement Calculus AB</td>
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<tr>
<td>3178</td>
<td>Advanced Placement Calculus BC</td>
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<td>5860</td>
<td>Advanced Placement Chinese Language and Culture</td>
<td>Fall Block, Full Year, Spring Block</td>
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<tr>
<td>3185</td>
<td>Advanced Placement Computer Science A</td>
<td>Full Year</td>
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<td>1196</td>
<td>Advanced Placement English Language and Composition</td>
<td>Fall Block, Full Year, Spring Block</td>
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<tr>
<td>1195</td>
<td>Advanced Placement English Literature and Composition</td>
<td>Fall Block, Full Year, Spring Block</td>
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<td>4270</td>
<td>Advanced Placement Environmental Science</td>
<td>Fall Block, Full Year, Spring Block</td>
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<td>2399</td>
<td>Advanced Placement European History</td>
<td>Fall Block, Full Year, Spring Block</td>
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<td>5170</td>
<td>Advanced Placement French Language</td>
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<td>2450</td>
<td>Advanced Placement Government and Politics: Comparative</td>
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<td>2445</td>
<td>Advanced Placement Government and Politics: US</td>
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<td>2212</td>
<td>Advanced Placement Human Geography</td>
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<td>5380</td>
<td>Advanced Placement Latin</td>
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<td>2803</td>
<td>Advanced Placement Macroeconomics</td>
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<td>2802</td>
<td>Advanced Placement Microeconomics</td>
<td>Fall Block, Spring Block</td>
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<tr>
<td>4570</td>
<td>Advanced Placement Physics 1</td>
<td>Fall Block, Full Year, Spring Block</td>
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<td>2902</td>
<td>Advanced Placement Psychology</td>
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<td>5570</td>
<td>Advanced Placement Spanish Language</td>
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<td>3192</td>
<td>Advanced Placement Statistics</td>
<td>Fall Block, Full Year, Spring Block</td>
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<tr>
<td>2319</td>
<td>Advanced Placement US History</td>
<td>Fall Block, Full Year, Spring Block</td>
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<td>2380</td>
<td>Advanced Placement World History</td>
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<tr>
<td>5010</td>
<td>Arabic I**</td>
<td>Full Year</td>
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<td>5011</td>
<td>Arabic II**</td>
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<td>5012</td>
<td>Arabic III**</td>
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<tr>
<td>4470</td>
<td>Chemistry (Advanced)</td>
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<tr>
<td>4410</td>
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<tr>
<td>5810</td>
<td>Chinese I**</td>
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<td>5820</td>
<td>Chinese II**</td>
<td>Full Year</td>
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5830 Chinese III
5840 Chinese IV
1171 Creative Writing
4210 Earth Science I**
4260 Earth Science II – Astronomy
2804 Economics
6120 Economics and Personal Finance
5110 French I**
5120 French II**
6640 Introduction to Game Design & Development
5310 Latin I**
5320 Latin II**
5330 Latin III
5340 Latin IV
4510 Physics (Honors)
3162 Pre-Calculus/Mathematical Analysis
2903 Psychology
5510 Introductory Spanish**
5520, 5512 Beginning Spanish**
5530, 5522 Intermediate Spanish
5540, 5532 Advanced Spanish
5700 Survey of World Language and Culture**
2219 World History and Geography I**
1165 World Mythology