

# Frederick County High Schools Curriculum Chart

## Spring 2009

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<b>English</b>										
English 9	English 10	English 11	English 12	AP Language	AP Literature	Journalism				
plot elements; persuasive & narrative writing; poetic devices & forms	American poetry, drama, short stories, novels, and nonfiction; rhetorical devices; research methods; literary criticisms	World poetry, drama, short stories, novels, and nonfiction; revolutionary writing; resume & cover letter writing	composition varieties including compare & contrast, narrative, cause & effect, & persuasive; revision techniques	essay structure; argumentation essays; syntax; world literature; narrative and descriptive essays; college essays	literary works from diverse cultures; motifs in literature; philosophical, political, & social influences on world literature; essay structure	news, opinions, & features; sports writing; history of journalism; Associated Press style; advertisements				
<b>Mathematics</b>										
Algebra I	Algebra II	Advanced Algebra	Geometry	Pre-Calculus	AP Calculus	Statistics	Contemporary			
single variable inequalities; linear functions & systems; data analysis	quadratic equations; polynomials; exponential, rational, & logarithmic functions	polynomials; exponential, rational, logarithmic, & trigonometric functions	points, lines, & planes; polygons; trigonometry; mathematical proofs	polynomials; limits; exponential, rational, logarithmic, & trigonometric functions	derivatives; integrals; differential equations; infinite series; limits	data analysis; sampling; probability; distributions	personal finance; common & abnormal investments; budgeting			
<b>Science</b>										
Biology	Introduction to Chemistry and Physics			Chemistry	Algebra-Based Physics		Environmental Science			
carbohydrates, lipids, & proteins; organic molecules; anatomy of a cell; fertilization; genetics & DNA; structure & function of body systems	three phases of matter (solid, liquid, & gas); subatomic particles; kinetic & potential energy; chemical reactions; ionic & covalent bonding; Law of Conservation of Mass and Energy			Hess's Law; Atomic Theory; Lewis electron dot diagrams; Periodic Table; hybridization; bonding in single, double, and triple bonds; solutions; metals	laws of mechanics; friction; gravity; Newton's Laws; momentum; waves & optics; electromagnetism; thermodynamics; fission & fusion; Doppler Effect; Ohm's Laws & electricity;		biogeochemical cycles; ecosystems & habitats; natural selection; soil conservation; air pollutants; greenhouse effect; Chesapeake Bay			
<b>Social Studies</b>										
Government	Modern World	AP World & European	American Studies II	AP US History	Civil War	World War II	Ancient & Medieval	Sociology	Psychology	Economics
Constitution; Bill of Rights; Government branches; Supreme Court Cases; archived documents	Renaissance; Reformation; Age of Exploration; Scientific Revolution; Enlightenment; Napoleonic Era; Industrial Revolution; Nationalism; Imperialism; Revolution; World Wars I & II; Cold War	Reconstruction; Industrialization; reform; the 1920s; economic crisis & the New Deal; World War II; the Cold War	Sectionalism; slavery; secession; Lincoln, Grant, & Lee; war in 1862, 1864, & 1865; Reconstruction	Fascism; Japan's involvement; American involvement; Holocaust; Axis' Defeat; Mussolini & Hitler	Prehistoric Humans; River Valley; Ancient Greeks & Romans; early, middle, and late Medieval	aging; social stratification; ethnic relations; deviance & social control; social institutions	states of consciousness; memory; cognitive; psychological disorders; abnormal psych	supply & demand; market structure; fiscal policy; globalization; trade		
<b>Foreign Language</b>										
Spanish			German			French			Latin	
Spanish culture; Spanish art; Spanish folktales; Ancient South & Central American civilizations; Spanish cuisine; Spanish dance; Spanish language; conjugations			German culture; the Rhine; German fairytales (anthology); Holocaust; German art; classical and modern German music; German language; conjugations & vocabulary			French history; French revolutions of 18 <sup>th</sup> & 19 <sup>th</sup> centuries; Impressionism; Renaissance; French scientists; French language; conjugations & vocabulary			ancient Greek & Roman culture; classical mythology; Latin & Greek derivatives; ancient history; everyday Latin expressions in English	
<b>Performing Arts</b>										
Band	Chorus	Orchestra	Piano	Guitar	Theatre Arts	Advanced Theatre Studies				
pitch accuracy; posture, & embouchure; music styles (canon, chorale, etc.); history (Baroque, Renaissance, etc.);	uniform vowel system; major scales and intervals of Octave, Perfect 5th, Perfect 4th, Major 3rd, & Minor 3rd.	fingering techniques; bowing; tempo; articulation; dynamics; music styles & history	finger dexterity; hand-eye coordination; sight-reading competency; historical and cultural development of piano &/or guitar; correct hand, arm & wrist positions; scales, chords, & arpeggios;	lighting; costume; sound; make-up; American theatre; musical theatre; comedies and tragedies; improvisation; script interpretation	styles (comedy, tragedy, farce, musical); performance production (script to performance); stage; technical aspects (lighting, sound, etc.)					

## Visual Arts

A-T I, II, & III	Ceramics	Painting and Drawing	Computer Graphics	Photography & Digital Photography	Publications-Yearbook	AP Studio Art	AP Art History
drawing: ceramics, sculpture, painting, digital art, & commercial art; influences of art on history and society	purposes of ceramic works; application of hand-building; wheel-throwing, wedging, recycling clay, & glazing	feelings and moods in paintings; application of pencils, pen & ink, charcoal, pastel, & watercolor; color theory	Photostop, Freehand, Illustrator, Quark Express, InDesign, Bryce, & Mayor; works with multiple programs	lenses; darkroom use; expertise in enlarging, cropping, solarizing, burning-in dodging, & mounting; Photostop	InDesign; staff organization, editing, promoting, circulation, advertising, circulation, & photography	Drawing; painting; photography; ceramics; diagrams; animation; sculpture; fiber arts; computer graphics	art interpretation; analysis of art throughout history; art and society relationship

## Health and Physical Education

Health	Sports Medicine	Fitness for Life	Strength Training & Fitness	Team Sports
interpersonal relationships; drug abuse; disease prevention & control; responsible decisions about sexual behavior	training programs; prevention, evaluation, & treatment of injuries; exercise physiology; sports psychology; internal medicine	regular, moderate, and vigorous physical activities; movement effectiveness and safety; motor skills; relationship between exercise and stress reduction	personal training needs; individualized training programs; understanding of performance-enhancing substances	basketball, volleyball, baseball, football, field hockey, swimming, & softball; focus on increased offensive and defensive skills; game participation rules

## Family and Consumer Science

Child Development	Personal Relationships & Parenting	Independent Living	Nutrition	Cultures and Cuisine
childhood developmental stages; behavioral guidelines for children; human growth; abnormal development stages	personal vs. relationship needs; interpersonal communication skills; human development; conflict prevention; teamwork skills	employability skills; management of individual & family resources; consumer rights & responsibilities; financial resources; nutrition & wellness practices	concept of ideal diet; food groups; essential nutrients; carbohydrates, fats, & oils; energy balance & metabolism	Meal planning; recipes; food preparation safety; geography & resources; international cuisine; food preparation & implementation of international cuisine

## Information Technology and Careers

Accounting	Keyboarding	Management and Entrepreneurship	Computer Science and Programming	Website Development	Agriculture
accounting cycle; assets, liabilities; owner's equity; financial statement preparation; payroll, income taxation, & managerial systems	input technologies; composition of personal and business documents; pursuit of employment via digital communication; keyboard architecture	business organization; entrepreneur characteristics; target markets; business plans & records; human resources; supervision of employees	computer languages; numeric & symbolic computations; computer architecture; ethical issues; software engineering; algorithms & data structures; career paths	web site coding tools; software tools; key design concepts; multimedia elements; web site career paths; ethical issues	metals; bio-related technology; engines and power; horse care; pre-veterinary science; large animals; small animals; horticulture

Sources: Frederick County essential curriculum 2008-2009 located in [www.fcpssteach.org](http://www.fcpssteach.org), Samuel Mills, Mary Kay McDonald, Charlet Remus, Consuelo Fuenzalida, Cheryl Muldoon, Therese Wilson, Nancy Jones, Ambreen Khan, Kate Ehrlich, and Amy Schade