



Pre-Kindergarten

Courses

page 4



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$embarK^{{\scriptscriptstyle 12}}$	5

Elementary

Courses

page 7



$English \ \& \ Language \ Arts$	8
Math	12
Science	14
History & Social Sciences	16
Art	17
Music	19
World Languages	21
Orientation	24

Middle School

Courses

page 25



English & Language Arts	28
Math	29
Science	3 O
History & Social Sciences	32
Art	33
Music	34
World Languages3	34
Orientation	39

High School

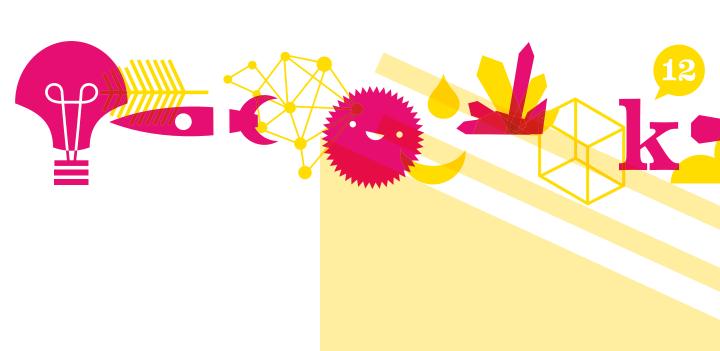
Courses

page 42



English	44
Mathematics	5 2
Science	60
History & Social Sciences	66
World Languages	78
Electives	. 87
Technology & Computer Science	95





In K^{12} Core courses, topics are broken into discrete modules that are taught in tandem with the framework students need to develop strong study skills. Rich, engaging content with interactive demonstrations and activities help students absorb and retain information.

In K¹² Comprehensive courses, students do more extensive writing and research projects, and tackle problems that require more analytical thinking. Course projects and activities also demand more independent thinking and self-discipline than projects in Core courses.

 K^{12} Honors courses hold students to a greater degree of accountability, and demand even greater independence and self-discipline. Students synthesize and evaluate information and concepts from multiple sources and read texts typically assigned in college-level courses. Students also demonstrate college-level writing in essays that require analysis of primary and secondary sources, responsible use of evidence, and comprehensive citation of sources.

 K^{12} AP^{\otimes} courses are college-level courses that follow curriculum specified by the College Board. These courses are designed to prepare students for success on AP exams, providing students the opportunity to earn credit at most of the nation's colleges and universities. Our AP courses include a companion AP Exam Review course, that provides practice for multiple choice exams and essay writing, as well as provides students an individualized study plan based on their results.

ENGO01-APL: English Foundations I (Remediation)

Students build and reinforce foundational reading, writing, and basic academic skills needed for success in high school. Through carefully paced, guided instruction, and graduated reading levels, students improve reading comprehension and strategies, focusing on literacy development at the critical stage between decoding and making meaning from text. Instruction and practice in writing skills help students develop their composition skills in a variety of formats. Formative assessments identify areas of weakness, lessons are prescribed to improve performance, and summative assessments track progress and skill development. If needed, students can continue their remediation of reading and writing skills with English Foundations II.

Course Length: Two semesters

Prerequisites: Teacher/school counselor recommendation

ENG011-APL: English Foundations II (Remediation)

Students build and reinforce foundational reading, writing, and basic academic skills needed for success in high school. Struggling readers develop mastery in reading comprehension, vocabulary building, study skills, and media literacy. Students build confidence in writing fundamentals by focusing on composition in a variety of formats, grammar, style, and media literacy. Formative assessments identify areas of weakness, lessons are prescribed to improve performance, and summative assessments track progress and skill development.

Course Length: Two semesters

Prerequisites: Teacher/school counselor recommendation; ENG001-APL: English

Foundations I is not required

ENG102: Literary Analysis and Composition I (Core)

In this course, students work on their written and oral communication skills, while strengthening their ability to understand and analyze works of literature, both classic and modern.



Literature: Students read short stories, poetry, drama, novels, essays, and informative articles. The course sharpens reading comprehension skills and engages readers in literary analysis as they consider important human issues and challenging ideas. Students also learn to read for information in nonfiction texts.

Language Skills: Students learn to express their ideas effectively. They sharpen their composition skills through focus on writing good paragraphs and essays in a variety of genres, such as persuasive and research essays. Students plan, organize, and revise written works in response to feedback on drafts. In grammar, usage, and mechanics lessons, students expand their understanding of parts of speech, phrases and clauses, sentence analysis and structure, agreement, punctuation, and other conventions. Vocabulary lessons build knowledge of Greek and Latin words that form the roots of many English words. Students use word origins and derivations to determine the meaning of new words as they increase their vocabularies.

Course Length: Two semesters

Materials: Explorations: An Anthology of Literature, Volume A; English Language Handbook; Vocabulary from Classical Roots, Book B; Julius Caesar for Young People

Prerequisites: Middle school English/language arts

Note: This course is only for students who are new to the K^{12} curriculum. Students who have taken K^{12} Intermediate English A or B, or K^{12} middle school Literary Analysis and Composition courses, should not enroll in this course.

ENG103: Literary Analysis and Composition I (Comprehensive)

This course challenges students to improve their written and oral communication skills, while strengthening their ability to understand and analyze literature in a variety of genres.

Literature: Students read a broad array of short stories, poetry, drama, novels, autobiographies, essays, and famous speeches. The course guides students in the close reading and critical analysis of classic works of literature, and helps them appreciate the texts and the contexts in which the works were written. Literary selections range from classic works such as Shakespeare's *Romeo and Juliet* to contemporary pieces by authors such as Maya Angelou.

Language Skills: Students broaden their composition skills by examining model essays in various genres by student and published writers. Through in-depth planning, organizing, drafting, revising, proofreading, and feedback, they hone their writing skills. Students build on their grammar, usage, and mechanics skills with in-depth study of sentence analysis and structure, agreement, and punctuation, reinforced by online activities (Skills Updates). Student vocabularies are enhanced through the study of Greek and Latin root words, improving students' ability to decipher the meanings of new words.

Course Length: Two semesters

Materials: Classics for Young Readers, Volume 8: An Audio Companion; BK English Language Handbook, Level 1; Vocabulary from Classical Roots, Book C; The Narrative of the Life of Frederick Douglass, An American Slave by Frederick Douglass; Anne Frank: Diary of a Young Girl by Anne Frank; Romeo and Juliet by William Shakespeare

Prerequisites: K¹² Intermediate English A and B (or equivalent)

Note: Students who have already succeeded in K^{12} middle school Literary Analysis and Composition should not enroll in this course.

ENG104: Honors Literary Analysis and Composition I

This course challenges students to improve their written and oral communication skills, while strengthening their ability to understand and analyze literature in a variety of genres. Students enrolled in this course work on independent projects that enhance their skills and challenge them to consider complex ideas and apply the knowledge they have learned.

Literature: Students read a broad array of short stories, poetry, drama, novels, autobiographies, essays, and famous speeches. The course guides students in the close reading and critical analysis of classic works of literature, and helps them appreciate the texts and the contexts in which the works were written. Literary selections range from the Greek tragedy *Antigone* to Shakespeare's *Romeo and Juliet* to contemporary pieces by authors such as Annie Dillard and Maya Angelou.

Language Skills: Students broaden their composition skills by examining model essays in various genres by student and published writers. Through in-depth planning, organizing, drafting, revising, proofreading, and feedback, they hone their writing skills. Students build on their grammar, usage, and mechanics skills with in-depth study of sentence analysis and structure, agreement, and punctuation, reinforced by online activities. Student vocabularies are enhanced through the study of Greek and Latin root words, improving students' ability to decipher the meanings of new words.

Course Length: Two semesters

Materials: Classics for Young Readers, Volume 8; Classics for Young Readers, Volume 8: An Audio Companion; BK English Language Handbook, Level 1; Vocabulary from Classical Roots, Book C; The Narrative of the Life of Frederick Douglass, An American Slave by Frederick Douglass; Anne Frank: Diary of a Young Girl by Anne Frank; Romeo and Juliet by William Shakespeare

Prerequisites: Success in K¹² Intermediate English A and B (or equivalent) and teacher/school counselor recommendation

Note: Students who have already succeeded in K^{12} middle school Literary Analysis and Composition should not enroll in this course.

ENG106: Literary Analysis and Composition I (Credit Recovery)

In the course, students read a variety of literary works to sharpen reading comprehension and literary analysis skills. They review composition skills and expand their understanding of parts of speech, phrases and clauses, sentence analysis and structure, agreement, punctuation, and other conventions. Vocabulary lessons build knowledge of Greek and Latin words that form the roots of many English words. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters

Materials: Explorations: An Anthology of Literature, Volume A; English Language Handbook; Vocabulary from Classical Roots, Book B; Julius Caesar for Young People Prerequisites: Student previously took the course or its equivalent, but did not receive credit and teacher/school counselor recommendation

ENG202: Literary Analysis and Composition II (Core)

In this course, students build on their language skills while reading classic and modern works of literature and improving their writing skills.



Literature: Students read short stories, poetry, drama, and novels, sharpening their reading comprehension skills and analyzing important human issues.

Language Skills: Students continue to work on their oral and written expression skills, writing a variety of essays, including persuasive and research essays. Students plan, organize, and revise their essays in response to feedback. They build on their skills in grammar, usage, and mechanics by studying parts of speech, phrases and clauses, sentence analysis and structure, agreement, punctuation, and other conventions. Thematic units focus on word roots, suffixes and prefixes, context clues, and other strategies to help students strengthen their vocabularies.

Course Length: Two semesters

Materials: Explorations: An Anthology of Literature, Volume B; The Miracle Worker

by William Gibson

Prerequisites: ENG102: Literary Analysis and Composition I (or equivalent)

Note: Students who have taken K^{12} Intermediate English A or B or K^{12} middle school Literary Analysis and Composition courses should not enroll in this course.

ENG203: Literary Analysis and Composition II (Comprehensive)

In this course, students build on existing literature and composition skills and move to higher levels of sophistication.

Literature: Students hone their skills of literary analysis by reading short stories, poetry, drama, novels, and works of nonfiction, both classic and modern. Authors include W. B. Yeats, Sara Teasdale, Langston Hughes, Robert Frost, Edgar Allan Poe, Nathaniel Hawthorne, Kate Chopin, Amy Tan, and Richard Rodriguez. Students read Shakespeare's *Macbeth*. They are offered a choice of novels and longer works to study, including works by Jane Austen, Charles Dickens, Elie Wiesel, and many others.

Language Skills: In this course, students become more proficient writers and readers. In composition lessons, students analyze model essays from readers' and writers' perspectives, focusing on ideas and content, structure and organization, style, word choice, and tone. Students receive feedback during the writing process to help them work toward a polished final draft. In addition to writing formal essays, resumes, and business letters, students write and deliver a persuasive speech. Students expand their knowledge of grammar, usage, and mechanics through sentence analysis and structure, syntax, agreement, and conventions. Unit pretests identify skills to address more fully. Students strengthen their vocabularies through thematic units focused on word roots, suffixes and prefixes, context clues, and other important vocabulary-building strategies.

Course Length: Two semesters

Materials: Journeys in Literature: Classic and Modern, Volume B; Journeys in Literature: Classic and Modern, Volume B: An Audio Companion; Vocabulary for Achievement, Fourth Course; Macbeth by William Shakespeare

Prerequisites: ENG103: Literary Analysis and Composition I (or equivalent)

ENG204: Honors Literary Analysis and Composition II

In this course, students build on existing literature and composition skills and move on to higher levels of sophistication. Students work on independent projects that enhance their skills and challenge them to consider complex ideas and apply the knowledge they have learned.

Literature: Students hone their skills of literary analysis by reading short stories, poetry, drama, novels, and works of nonfiction, both classic and modern. Authors include W. B. Yeats, Sara Teasdale, Langston Hughes, Robert Frost, Edgar Allan Poe, Nathaniel Hawthorne, Kate Chopin, Amy Tan, Richard Rodriguez, and William Shakespeare. Students have a choice of novels and longer works to study, including works by Jane Austen, Charles Dickens, and Elie Wiesel.

Language Skills: In this course, students become more proficient writers and readers. In composition lessons, students analyze model essays from readers' and writers' perspectives, focusing on ideas and content, structure and organization, style, word choice, and tone. Students receive feedback during the writing process to help them work toward a polished final draft. In addition to writing formal essays, résumés, and business letters, students write and deliver a persuasive speech. Students expand their knowledge of grammar, usage, and mechanics through sentence analysis and structure, syntax, agreement, and conventions. Unit pretests identify skills to address more fully. Students strengthen their vocabularies through thematic units focused on word roots, suffixes and prefixes, context clues, and other important vocabulary-building strategies.

Course Length: Two semesters

Materials: Journeys in Literature: Classic and Modern, Volume B; Journeys in Literature: Classic and Modern, Volume B: An Audio Companion; Vocabulary for Achievement, Fourth Course; Macbeth by William Shakespeare

Prerequisites: Success in ENG104: Honors Literary Analysis and Composition I (or equivalent) and teacher/school counselor recommendation

ENG206: Literary Analysis and Composition II (Credit Recovery)

In this course, students read classic and modern works of literature, sharpening their reading comprehension skills and analyzing important human issues. They review effective strategies for oral and written expression, grammar, usage, and mechanics. Thematic units focus on word roots, suffixes and prefixes, context clues, and other strategies that help students strengthen their vocabularies. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters

Materials: Explorations: An Anthology of Literature, Volume B; The Miracle Worker

by William Gibson

Prerequisites: Student previously took the course or its equivalent, but did not receive credit and teacher/school counselor recommendation

ENG302: American Literature (Core)

In this genre-based course, students sharpen their reading comprehension skills and analyze important themes in classic and modern works of American literature, including short stories, poetry, drama, and novels. Students refine their skills of written expression by writing memoirs, persuasive essays, research essays, workplace documentation, and more. They develop vocabulary skills and refresh their knowledge of grammar, usage, and mechanics in preparation for standardized tests.

Literature: Students read short stories, poetry, drama, and novels, sharpening their reading comprehension skills and analyzing important themes in American literature.

Language Skills: Students continue to work on their oral and written expression skills,



writing a variety of essays including memoirs, persuasive and research essays, and workplace documentation. Students plan, organize, and revise their essays in response to feedback.

Course Length: Two semesters

Materials: Explorations: An Anthology of American Literature, Volume C; Our Town by

Thornton Wilder; To Kill a Mockingbird by Harper Lee

Prerequisites: ENG202: Literary Analysis and Composition II (or equivalent)

ENG303: American Literature (Comprehensive)

In this course, students read and analyze works of American literature from colonial to contemporary times, including poetry, short stories, novels, drama, and nonfiction. The literary works provide opportunities for critical writing, creative projects, and online discussions. Students develop vocabulary skills and refresh their knowledge of grammar, usage, and mechanics in preparation for standardized tests.

Course Length: Two semesters

Materials: Journeys in Literature: American Traditions, Volume C; The Great Gatsby by F. Scott Fitzgerald; The Glass Menagerie by Tennessee Williams. Students will also read one selection of their choice from the following: The Old Man and the Sea by Ernest Hemingway; The House on Mango Street by Sandra Cisneros; A Lesson Before Dying by Ernest Gaines; The Red Badge of Courage by Stephen Crane

Prerequisites: ENG203: Literary Analysis and Composition II (or equivalent)

ENG304: Honors American Literature

In this course, students read and analyze works of American literature from colonial to contemporary times, including poetry, short stories, novels, drama, and nonfiction. The literary works provide opportunities for critical writing, creative projects, and online discussions. Students develop vocabulary skills and refresh their knowledge of grammar, usage, and mechanics in preparation for standardized tests. Students enrolled in this challenging course will also complete independent projects that deepen their understanding of the themes and ideas presented in the curriculum.

Course Length: Two semesters

Materials: Journeys in Literature: American Traditions, Volume C; The Great Gatsby by F. Scott Fitzgerald; The Glass Menagerie by Tennessee Williams. Students will also read one selection of their choice from the following: The Old Man and the Sea by Ernest Hemingway; The House on Mango Street by Sandra Cisneros; A Lesson Before Dying by Ernest Gaines; The Red Badge of Courage by Stephen Crane; and two selections of their choice from the following: Billy Budd by Herman Melville; A Connecticut Yankee in King Arthur's Court by Mark Twain; Catcher in the Rye by J.D. Salinger; Song of Solomon by Toni Morrison

Prerequisites: Success in ENG204: Honors Literary Analysis and Composition II (or equivalent) and teacher/school counselor recommendation

ENG306: American Literature (Credit Recovery)

Students sharpen their reading comprehension skills and analyze important themes in classic and modern works of American literature. They review effective strategies for written expression. They develop vocabulary skills and refresh their knowledge of grammar, usage, and mechanics in preparation for standardized tests. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters

Materials: Explorations: An Anthology of American Literature, Volume C; Our Town by

Thornton Wilder; To Kill a Mockingbird by Harper Lee

Prerequisites: Student previously took the course or its equivalent, but did not receive

credit and teacher/school counselor recommendation

ENG402: British and World Literature (Core)

This course engages students in selections from British and world literature from the ancient world through modern times. They practice analytical writing and have opportunities for creative expression. Students also practice test-taking skills for standardized assessments in critical reading and writing.

Course Length: Two semesters

Materials: Explorations: An Anthology of British and World Literature

Prerequisites: ENG302: American Literature (or equivalent)

ENG403: British and World Literature (Comprehensive)

Students read selections from British and world literature in a loosely organized chronological framework. They analyze the themes, styles, and structures of these texts and make thematic connections among diverse authors, periods, and settings. Students complete guided and independent writing assignments that refine their analytical skills. They have opportunities for creative expression in projects of their choice. Students also practice test-taking skills for standardized assessments in critical reading and writing.

Course Length: Two semesters

Materials: Journeys in Literature: British and World Classics; Hamlet by William

Shakespeare

Prerequisites: ENG303: American Literature (or equivalent)

ENG404: Honors British and World Literature

Students read selections from British and world literature in a loosely organized chronological framework. They analyze the themes, styles, and structures of these texts and make thematic connections among diverse authors, periods, and settings. Students work independently on many of their analyses and engage in creative collaboration with their peers. Students also practice test-taking skills for standardized assessments in critical reading and writing.

Course Length: Two semesters

Materials: Journeys in Literature: British and World Classics; Hamlet by William

Shakespeare

Prerequisites: ENG204: Honors Literary Analysis and Composition II (or equivalent) or ENG304: Honors American Literature (or equivalent), and teacher/school counselor

recommendation

ENG406: British and World Literature (Credit Recovery)

This course engages students in selections from British and world literature from the ancient world through modern times. They practice analytical writing and have opportunities for creative expression. Students also practice test-taking skills for standardized assessments in critical reading and writing. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.



Course Length: Two semesters

Materials: Explorations: An Anthology of British and World Literature

Prerequisites: Student previously took the course or its equivalent,
but did not receive credit and teacher/school counselor recommendation

ENG500: AP English Language and Composition

Students learn to understand and analyze complex works by a variety of authors. They explore the richness of language, including syntax, imitation, word choice, and tone. They also learn composition style and process, starting with exploration, planning, and writing. This continues with editing, peer review, rewriting, polishing, and applying what they learn to academic, personal, and professional contexts. In this equivalent of an introductory college-level survey class, students prepare for the AP exam and for further study in communications, creative writing, journalism, literature, and composition.

Course Length: Two semesters

 $\textbf{Materials:} \ \textit{The Norton Reader: An Anthology of Nonfiction, 13th ed.; Writing: A College}$

Handbook, 5th ed.

Prerequisites: Success in ENG204: Honors Literary Analysis) and Composition II (or equivalent) or ENG304: Honors American Literature(or equivalent), and teacher/school counselor recommendation

ENG510: AP English Literature and Composition

In this course, the equivalent of an introductory college-level survey class, students are immersed in novels, plays, poems, and short stories from various periods. Students read and write daily, using a variety of multimedia and interactive activities, interpretive writing assignments, and discussions. The course places special emphasis on reading comprehension, structural and critical analyses of written works, literary vocabulary, and recognizing and understanding literary devices. Students prepare for the AP Exam and for further study in creative writing, communications, journalism, literature, and composition.

Course Length: Two semesters

Materials: Required (both semesters): The Norton Anthology of Poetry, 5th ed.; The Story and Its Writer: An Introduction to Short Fiction, compact 7th ed.Required (first semester): Their Eyes Were Watching God by Zora Neale Hurston; Hedda Gabler by Henrik Ibsen; A Streetcar Named Desire by Tennessee Williams; Twelfth Night by William Shakespeare Required (second semester): The Great Gatsby by F. Scott Fitzgerald; Annie John by Jamaica Kincaid; Jane Eyre by Charlotte Brontë

Prerequisites: Success in ENG204: Honors Literary Analysis) and Composition II (or equivalent) or ENG304: Honors American Literature (or equivalent), and teacher/school counselor recommendation

ENG010: Journalism (Elective)

Students are introduced to the historical importance of journalism in America. They study the basic principles of print and online journalism as they examine the role of printed news media in our society. They learn investigative skills, responsible reporting, and journalistic writing techniques as they read, respond to, and write their own news and feature articles. Students conduct interviews, research, write, and design their own publications.

Course Length: One semester

Prerequisites: None

ENG020: Public Speaking (Elective)

Students are introduced to public speaking as an important component of their academic, work, and social lives. They study public speaking occasions and develop skills as fair and critical listeners, or consumers, of spoken information and persuasion. Students study types of speeches (informative, persuasive, dramatic, and special occasion), read and listen to models of speeches, and prepare and present their own speeches to diverse audiences. Students learn to choose speaking topics and adapt them for specific audiences, to research and support their ideas, and to benefit from listener feedback. They study how to incorporate well-designed visual and multimedia aids in presentations and how to maintain a credible presence in the digital world. Students also learn about the ethics of public speaking and about techniques for managing communication anxiety.

Course Length: One semester

Materials: Student must provide a webcam and recording software

Prerequisites: None

ENG030-AVT: Creative Writing (Elective)

Students create original essays, poems, and short stories in this course, which uses two textbooks and focuses on the four-step process writing model. They read professionally written forms of creative writing as models and then integrate their impressions of these works with their personal life experiences as they compose their own writing projects. Students are encouraged to write about topics they find engaging as they practice writing on the following themes: narration, definition, process analysis, cause and effect, and comparison/contrast. After students turn in each assignment, the teacher supplies detailed suggestions for revision. This feedback helps students learn how to improve their self-expression and self-editing skills.

Course Length: Two semesters

Prerequisites: None

MTH001-APL: Math Foundations I (Remediation)

Students build and reinforce foundational math skills typically found in third through fifth grade for which they have not achieved mastery. They progress through carefully paced, guided instruction and engaging interactive practice. Formative assessments identify areas of weakness and prescribe lessons to improve performance. Summative assessments track progress and skill development. If needed, students can move on to Math Foundations II (addressing skills typically found in sixth through eighth grade) to further develop the computational skills and conceptual understanding needed to undertake high school math courses with confidence.

Course Length: Two semesters

Prerequisites: Teacher/school counselor recommendation

MTH011-APL: Math Foundations II (Remediation)

Students build and reinforce foundational math skills typically found in sixth through eighth grade, achieving the computational skills and conceptual understanding needed to undertake high school math courses with confidence. Carefully paced, guided instruction is accompanied by interactive practice that is engaging and accessible. Formative assessments identify areas of weakness and prescribe lessons to improve performance.

MATHEMATICS





Summative assessments track progress and skill development. This course is appropriate for use as remediation at the high school level or as a bridge to high school.

Course Length: Two semesters

Prerequisites: Teacher/school counselor recommendation; MTH001-APL: Math

Foundations I is not required

MTH322-AVT: Consumer Math (Core)

In Consumer Math, students study and review arithmetic skills they can apply in their personal lives and in their future careers. The first semester of the course begins with a focus on occupational topics; it includes details on jobs, wages, deductions, taxes, insurance, recreation and spending, and transportation. In the second semester of Consumer Math, students learn about personal finances, checking and savings accounts, loans and buying on credit, automobile expenses, and housing expenses. Narrated slide shows help illustrate some of the more difficult content. Throughout the course, students participate in online discussions with each other and their teacher.

Course Length: Two semesters

Prerequisites: None

MTH112: Pre-Algebra (Core)

In this course, students learn computational and problem-solving skills and the language of algebra. Students translate word phrases and sentences into mathematical expressions; analyze geometric figures; solve problems involving percentages, ratios, and proportions; graph different kinds of equations and inequalities; calculate statistical measures and probabilities; apply the Pythagorean theorem; and explain strategies for solving real-world problems. The textbook provides students with a ready reference and explanations that supplement the online material. Online lessons provide demonstrations of concepts, as well as interactive problems with contextual feedback.

Course Length: Two semesters

Materials: Pre-Algebra: Reference Guide and Problem Sets

Prerequisites: K¹² middle school Fundamentals of Geometry and Algebra, or MTH011-

APL: Math Foundations II (or equivalents)

Note: Students who have already succeeded in K^{12} middle school Pre-Algebra should not enroll in this course.

MTH113: Pre-Algebra (Comprehensive)

In this course, students take a broader look at computational and problem-solving skills while learning the language of algebra. Students translate word phrases and sentences into mathematical expressions; analyze geometric figures; solve problems involving percentages, ratios, and proportions; graph different kinds of equations and inequalities; calculate statistical measures and probabilities; apply the Pythagorean theorem; and explain strategies for solving real-world problems. Online lessons provide demonstrations of key concepts, as well as interactive problems with contextual feedback. A textbook supplements the online material.

Course Length: Two semesters

Materials: Pre-Algebra: Reference Guide and Problem Sets

Prerequisites: K¹² middle school Fundamentals of Geometry and Algebra (or equivalent)

Note: Students who have already succeeded in K^{12} middle school Pre-Algebra should not enroll in this course.

MTH116: Pre-Algebra (Credit Recovery)

In this course, students review computational and problem-solving skills and the language of algebra. Topics include mathematical expressions; geometric figures; percentages, ratios, and proportions; graphs for equations and inequalities; statistical measures and probabilities; the Pythagorean theorem; and strategies for solving world problems. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters

Materials: Pre-Algebra: Reference Guide and Problem Sets

Prerequisites: Student previously took the course or its equivalent, but did not receive

credit, and teacher/school counselor recommendation

MTH107: Developmental Algebra (Core) (NEW)

This is the first course in a two-year algebra sequence that concludes with Continuing Algebra (forthcoming in 2014–2015). In this course, students begin to explore the tools and principles of algebra. Students learn to identify the structure and properties of the real number system; complete operations with integers and other rational numbers; work with square roots and irrational numbers; graph linear equations; solve linear equations and inequalities in one variable; and solve systems of linear equations. Sophisticated virtual manipulatives and online graphing tools help students visualize algebraic relationships. Developmental Algebra covers fewer topics than a one-year algebra course, providing students with more time to learn and practice key concepts and skills. After completing Developmental Algebra, students will be prepared to take Continuing Algebra.

Course Length: Two semesters

Materials: Algebra I: Reference Guide and Problem Sets **Prerequisites:** MTH112: Pre-Algebra (or equivalent)

MTH122: Algebra I (Core)

In this course, students explore the tools of algebra. Students learn to identify the structure and properties of the real number system; complete operations with integers and other rational numbers; work with square roots and irrational numbers; graph linear equations; solve linear equations and inequalities in one variable; solve systems of linear equations; use ratios, proportions, and percentages to solve problems; use algebraic applications in geometry including the Pythagorean theorem and formulas for measuring area and volume; complete an introduction to polynomials; and understand logic and reasoning.

Course Length: Two semesters

Materials: Algebra I: Reference Guide and Problem Sets **Prerequisites:** MTH112: Pre-Algebra (or equivalent)

Note: Students who have already succeeded in K^{12} middle school Algebra I should not enroll in this course.

MTH123: Algebra I (Comprehensive)

Students develop algebraic fluency by learning the skills needed to solve equations and perform manipulations with numbers, variables, equations, and inequalities. They also learn concepts central to the abstraction and generalization that algebra makes possible. Topics include simplifying expressions involving variables, fractions, exponents, and



radicals; working with integers, rational numbers, and irrational numbers; graphing and solving equations and inequalities; using factoring, formulas, and other techniques to solve quadratic and other polynomial equations; formulating valid mathematical arguments using various types of reasoning; and translating word problems into mathematical equations and then using the equations to solve the original problems. Compared to MTH122, this course has a more rigorous pace and more challenging assignments and assessments. It covers additional topics including translating functions, higher degree roots, and more complex factoring techniques.

Course Length: Two semesters

Materials: Algebra I: Reference Guide and Problem Sets

Prerequisites: K¹² Pre-Algebra, MTH113: Pre-Algebra (or equivalent)

Note: Students who have already succeeded in K^{12} middle school Algebra I should not enroll in this course.

MTH124: Honors Algebra I

This course prepares students for more advanced courses while they develop algebraic fluency, learn the skills needed to solve equations, and perform manipulations with numbers, variables, equations, and inequalities. They also learn concepts central to the abstraction and generalization that algebra makes possible. Topics include simplifying expressions involving variables, fractions, exponents, and radicals; working with integers, rational numbers, and irrational numbers; graphing and solving equations and inequalities; using factoring, formulas, and other techniques to solve quadratic and other polynomial equations; formulating valid mathematical arguments using various types of reasoning; and translating word problems into mathematical equations and then using the equations to solve the original problems. This course includes all the topics in MTH123, but includes more challenging assignments and optional challenge activities. Each semester also includes an independent honors project.

Course Length: Two semesters

Materials: Algebra I: Reference Guide and Problem Sets

Prerequisites: Success in previous math course and teacher/school counselor

recommendation

Note: Students who have already succeeded in K^{12} middle school Algebra I should not enroll in this course.

MTH126: Algebra I (Credit Recovery)

In this course, students review the tools of algebra. Topics include the structure and properties of real numbers; operations with integers and other rational numbers; square roots and irrational numbers; linear equations; ratios, proportions, and percentages; the Pythagorean theorem; polynomials; and logic and reasoning. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters

Materials: Algebra I: Reference Guide and Problem Sets

Prerequisites: Student previously took the course or its equivalent, but did not receive

credit, and teacher/school counselor recommendation

MTH202: Geometry (Core)

Students learn to recognize and work with core geometric concepts in various contexts. They develop sound ideas of inductive and deductive reasoning, logic, concepts, and techniques of Euclidean plane and solid geometry, as well as a solid, basic understanding of mathematical structure, method, and applications of Euclidean plane and solid geometry. Students use visualizations, spatial reasoning, and geometric modeling to solve problems. Topics of study include points, lines, and angles; triangles; right triangles; quadrilaterals and other polygons; circles; coordinate geometry; three-dimensional solids; geometric constructions; symmetry; and the use of transformations.

Course Length: Two semesters

Materials: Geometry: A Reference Guide; a drawing compass, protractor, and ruler

Prerequisites: MTH122: Algebra I (or equivalent)

MTH203: Geometry (Comprehensive)

In this comprehensive course, students are challenged to recognize and work with geometric concepts in various contexts. They build on ideas of inductive and deductive reasoning, logic, concepts, and techniques of Euclidean plane and solid geometry. They develop deeper understandings of mathematical structure, method, and applications of Euclidean plane and solid geometry. Students use visualizations, spatial reasoning, and geometric modeling to solve problems. Topics of study include points, lines, and angles; triangles; right triangles; quadrilaterals and other polygons; circles; coordinate geometry; three-dimensional solids; geometric constructions; symmetry; the use of transformations; and non-Euclidean geometries.

Course Length: Two semesters

Materials: Geometry: A Reference Guide; a drawing compass, protractor, and ruler

Prerequisites: MTH123: Algebra I (or equivalent)

MTH204: Honors Geometry

Students work with advanced geometric concepts in various contexts. They build indepth ideas of inductive and deductive reasoning, logic, concepts, and techniques of Euclidean plane and solid geometry. They also develop a sophisticated understanding of mathematical structure, method, and applications of Euclidean plane and solid geometry. Students use visualizations, spatial reasoning, and geometric modeling to solve problems. Topics of study include points, lines, and angles; triangles; right triangles; quadrilaterals and other polygons; circles; coordinate geometry; three-dimensional solids; geometric constructions; symmetry; the use of transformations; and non-Euclidean geometries. Students work on additional challenging assignments, assessments, and research projects.

Course Length: Two semesters

Materials: *Geometry: A Reference Guide*; a drawing compass, protractor, and ruler **Prerequisites:** MTH123: Algebra I or MTH124: Honors Algebra I (or equivalent) and

teacher/school counselor recommendation

MTH206: Geometry (Credit Recovery)

Students review core geometric concepts as they develop sound ideas of inductive and deductive reasoning, logic, concepts, and techniques and applications of Euclidean plane and solid geometry. Students use visualizations, spatial reasoning, and geometric modeling to solve problems. Topics include points, lines, and angles; triangles, polygons, and circles; coordinate geometry; three-dimensional solids; geometric constructions;





symmetry; and the use of transformations. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters

Materials: Geometry: A Reference Guide; a drawing compass, protractor, and ruler **Prerequisites:** Student previously took the course or its equivalent, but did not receive

credit, and teacher/school counselor recommendation

MTH302: Algebra II (Core)

This course builds upon algebraic concepts covered in Algebra I. Students solve openended problems and learn to think critically. Topics include conic sections; functions and their graphs; quadratic functions; inverse functions; and advanced polynomial functions. Students are introduced to rational, radical, exponential, and logarithmic functions; sequences and series; and data analysis.

Course Length: Two semesters

Materials: Algebra II: A Reference Guide and Problem Sets; Texas Instruments T1-84

Plus graphing calculator is recommended **Prerequisites:** MTH122: Algebra I (or equivalent)

MTH303: Algebra II (Comprehensive)

This course builds upon algebraic concepts covered in Algebra I and prepares students for advanced-level courses. Students extend their knowledge and understanding by solving open-ended problems and thinking critically. Topics include conic sections; functions and their graphs; quadratic functions; inverse functions; and advanced polynomial functions. Students are introduced to rational, radical, exponential, and logarithmic functions; sequences and series; and data analysis.

Course Length: Two semesters

Materials: Algebra II: A Reference Guide and Problem Sets; Texas Instruments T1-84

Plus graphing calculator

Prerequisites: MTH123: Algebra I and MTH203: Geometry (or equivalents)

MTH304: Honors Algebra II

This course builds upon advanced algebraic concepts covered in Algebra I and prepares students for advanced-level courses. Students extend their knowledge and understanding by solving open-ended problems and thinking critically. Topics include functions and their graphs; quadratic functions; complex numbers, and advanced polynomial functions. Students are introduced to rational, radical, exponential, and logarithmic functions; sequences and series; probability; statistics; and conic sections. Students work on additional challenging assignments, assessments, and research projects.

Course Length: Two semesters

Materials: Algebra II: A Reference Guide and Problem Sets; Texas Instruments T1-84

Plus graphing calculator

Prerequisites: MTH123 or MTH124 (Honors): Algebra I and MTH203 or MTH204 (Honors): Geometry (or equivalents) and teacher/school counselor recommendation

MTH306: Algebra II (Credit Recovery)

This course builds upon algebraic concepts covered in Algebra I. Students solve openended problems and learn to think critically. Topics include conic sections; functions and their graphs; quadratic functions; inverse functions; and advanced polynomial functions. Students review rational, radical, exponential, and logarithmic functions; sequences and series; and data analysis. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters

Materials: Algebra II: A Reference Guide and Problem Sets; Texas Instruments T1-84 Plus graphing calculator is recommended

Prerequisites: Student previously took the course or its equivalent, but did not receive credit, and teacher/school counselor recommendation

MTH307: Practical Math (Core) (NEW)

In this course, students use math to solve real-world problems—and real-world problems to solidify their understanding of key mathematical topics. Data analysis, math modeling, and personal finance are key themes in this course. Specific topics of study include statistics, probability, graphs of statistical data, regression, finance, and budgeting. In addition, students learn how to use several mathematical models involving algebra and geometry to solve problems. Proficiency is measured through frequent online and offline assessments, as well as class participation. Units focused on projects also allow students to apply and extend their math skills in real-world cases.

Course Length: Two semesters

Materials: Practical Math: Reference Guide and Problem Sets (online)

Prerequisites: Algebra I and Geometry

MTH403: Pre-Calculus/Trigonometry (Comprehensive)

Pre-calculus weaves together previous study of algebra, geometry, and functions into a preparatory course for calculus. The course focuses on the mastery of critical skills and exposure to new skills necessary for success in subsequent math courses. Topics include linear, quadratic, exponential, logarithmic, radical, polynomial, and rational functions; systems of equations; and conic sections in the first semester. The second semester covers trigonometric ratios and functions; inverse trigonometric functions; applications of trigonometry, including vectors and laws of cosine and sine; polar functions and notation; and arithmetic of complex numbers.

Cross-curricular connections are made throughout the course to calculus, art, history, and a variety of other fields related to mathematics.

Course Length: Two semesters

Materials: Texas Instruments T1-84 Plus graphing calculator

Prerequisites: MTH203: Geometry and MTH303: Algebra II (or equivalents)

MTH413: Probability and Statistics (Comprehensive)

Students learn counting methods, probability, descriptive statistics, graphs of data, the normal curve, statistical inference, and linear regression. Proficiency is measured through frequent online and offline assessments, as well as asynchronous discussions. Problemsolving activities provide an opportunity for students to demonstrate their skills in real world situations.





Course Length: One semester

Materials: Probability and Statistics: Reference Guide and Problem Sets

Prerequisites: MTH 303: Algebra II (or equivalent)

MTH433-AVT: Calculus (Comprehensive)

This course provides a comprehensive survey of differential and integral calculus concepts, including limits, derivative and integral computation, linearization, Riemann sums, the fundamental theorem of calculus, and differential equations. Content is presented in 10 units and covers various applications, including graph analysis, linear motion, average value, area, volume, and growth and decay models. In this course students use an online textbook, which supplements the instruction they receive and provides additional opportunities to practice using the content they've learned. Students will use an embedded graphing calculator applet (GCalc) for their work on this course; the software for the applet can be downloaded at no charge.

Course Length: Two semesters

Materials: Java is needed for the embedded graphing calculator applet (GCalc)

Prerequisites: MTH403: Pre-Calculus/Trigonometry (or equivalent)

MTH500: AP Calculus AB

This course is the equivalent of an introductory college-level calculus course. Calculus helps scientists, engineers, and financial analysts understand the complex relationships behind real-world phenomena. Students learn to evaluate the soundness of proposed solutions and apply mathematical reasoning to real-world models. Students also learn to understand change geometrically and visually (by studying graphs of curves), analytically (by studying and working with mathematical formulas), numerically (by seeing patterns in sets of numbers), and verbally. Students prepare for the AP exam and further studies in science, engineering, and mathematics.

Course Length: Two semesters

Materials: Texas Instruments T1-84 Plus graphing calculator

Prerequisites: Success in MTH204: Honors Geometry, MTH304: Honors Algebra II, MTH403: Pre-Calculus/Trigonometry (or equivalents), and teacher/school counselor

recommendation

MTH510: AP Statistics

This course is the equivalent of an introductory college-level course. Statistics—the art of drawing conclusions from imperfect data and the science of real-world uncertainties—plays an important role in many fields. Students collect, analyze, graph, and interpret real-world data. They learn to design and analyze research studies by reviewing and evaluating examples from real research. Students prepare for the AP exam and for further study in science, sociology, medicine, engineering, political science, geography, and business.

Course Length: Two semesters

Materials: Texas Instruments T1-84 Plus graphing calculator

Prerequisites: Success in MTH304: Honors Algebra II (or equivalent) and teacher/school

counselor recommendation

MTH520: AP Calculus BC (NEW)

This course is the equivalent of an introductory college-level calculus course. In this course, students study functions, limits, derivatives, integrals, and infinite series. Calculus helps scientists, engineers, and financial analysts understand the complex relationships behind real-world phenomena. Students learn to evaluate the soundness of proposed solutions and apply mathematical reasoning to real-world models. Students also learn to understand change geometrically and visually (by studying graphs of curves), analytically (by studying and working with mathematical formulas), numerically (by seeing patterns in sets of numbers), and verbally. Students prepare for the AP Exam and further studies in science, engineering, and mathematics.

Course Length: Two semesters

Materials: Texas Instruments T1-84 Plus graphing calculator

Prerequisites: Success in MTH204: Honors Geometry, MTH304: Honors Algebra II, MTH403: Pre-Calculus/Trigonometry (or equivalents), and teacher/school counselor

recommendation

SCI102: Physical Science (Core)

Students explore the relationship between matter and energy by investigating force and motion, the structure of atoms, the structure and properties of matter, chemical reactions, and the interactions of energy and matter. Students develop skills in measuring, solving problems, using laboratory apparatuses, following safety procedures, and adhering to experimental procedures. Students focus on inquiry-based learning, with both hands-on laboratory investigations and virtual laboratory experiences.

Course Length: Two semesters

Prerequisites: K¹² middle school Physical Science (or equivalent)

SCI106: Physical Science (Credit Recovery)

Students explore the relationship between matter and energy by investigating force and motion, the structure of atoms, the structure and properties of matter, chemical reactions, and the interactions of energy and matter. They review strategies for describing and measuring scientific concepts. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters

Prerequisites: Student previously took the course or its equivalent, but did not receive credit, and teacher/school counselor recommendation

SCI112: Earth Science (Core)

This course provides students with a solid earth science curriculum, focusing on geology, oceanography, astronomy, weather, and climate. The program consists of online lessons, an associated reference book, collaborative activities, virtual laboratories, and hands-on laboratories students can conduct at home. The course provides a base for further studies in geology, meteorology, oceanography, and astronomy, and gives practical experience in implementing scientific methods.

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Course Length: Two semesters

Materials: Earth Science: A Reference Guide

Prerequisites: K¹² middle school Earth Science (or equivalent)

SCI113: Earth Science (Comprehensive)

This course provides students with a comprehensive earth science curriculum, focusing on geology, oceanography, astronomy, weather, and climate. The program consists of in-depth online lessons, an associated reference book, collaborative activities, virtual laboratories, and hands-on laboratories students can conduct at home. The course prepares students for further studies in geology, meteorology, oceanography, and astronomy courses, and gives them practical experience in implementing scientific methods.

Course Length: Two semesters

Materials: Earth Science: A Reference Guide

Prerequisites: K¹² middle school Life Science (or equivalent)

SCI114: Honors Earth Science

This challenging course provides students with an honors-level earth science curriculum, focusing on geology, oceanography, astronomy, weather, and climate. The program consists of online lessons, an associated reference book, collaborative activities, and hands-on laboratories students can conduct at home. The course prepares students for advanced studies in geology, meteorology, oceanography, and astronomy courses, and gives them more sophisticated experience in implementing scientific methods. Additional honors assignments include debates, research papers, extended collaborative laboratories, and virtual laboratories.

Course Length: Two semesters

Materials: Earth Science: A Reference Guide

Prerequisites: K¹² middle school Life Science (or equivalent), success in previous science

course, and teacher/school counselor recommendation

SCI116: Earth Science (Credit Recovery)

This course provides students with a solid earth science curriculum. Students learn how the earth works, how it changes, and its place in the universe. They become familiar with the terminology, concepts, and practical applications of earth science and explore topics in geology, meteorology, oceanography, astronomy, and scientific methods. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters

Materials: Earth Science: A Reference Guide

Prerequisites: Student previously took the course or its equivalent, but did not receive

credit and teacher/school counselor recommendation

SCI202: Biology (Core)

In this course, students focus on the chemistry of living things: the cell, genetics, evolution, the structure and function of living things, and ecology. The program consists of online lessons including extensive animations, an associated reference book, collaborative activities, virtual laboratories, and hands-on laboratory experiments students can conduct at home.

Course Length: Two semesters **Materials:** *Biology: A Reference Guide*

Prerequisites: K¹² middle school Life Science (or equivalent)

SCI203: Biology (Comprehensive)

In this comprehensive course, students investigate the chemistry of living things: the cell, genetics, evolution, the structure and function of living things, and ecology. The program consists of in-depth online lessons including extensive animations, an associated reference book, collaborative explorations, virtual laboratories, and handson laboratory experiments students can conduct at home.

Course Length: Two semesters **Materials:** *Biology: A Reference Guide*

Prerequisites: K¹² middle school Life Science (or equivalent)

SCI204: Honors Biology

This course provides students with a challenging honors-level biology curriculum, focusing on the chemistry of living things: the cell, genetics, evolution, the structure and function of living things, and ecology. The program consists of advanced online lessons including extensive animations, an associated reference book, collaborative explorations, and hands-on laboratory experiments students can conduct at home. Honors activities include debates, research papers, extended collaborative laboratories, and virtual laboratories.

Course Length: Two semesters **Materials:** *Biology:* A *Reference Guide*

Prerequisites: K¹² middle school Life Science (or equivalent), success in previous science

course, and teacher/school counselor recommendation

SCI206: Biology (Credit Recovery)

Topics include the scientific method, characteristics of living things, energy, organic compounds, and water. Students review the structure and function of living things, the cell, genetics, DNA, RNA, and proteins. They review evolution and natural selection; digestive, respiratory, nervous, reproductive, and muscular systems; and ecology and the environment. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters **Materials:** *Biology:* A *Reference Guide*

Prerequisites: Student previously took the course or its equivalent, but did not receive

credit and teacher/school counselor recommendation

SCI302: Chemistry (Core)

This course surveys all key areas of chemistry, including atomic structure, chemical bonding and reactions, solutions, stoichiometry, thermochemistry, organic chemistry, and nuclear chemistry. The course includes direct online instruction, virtual laboratories, and related assessments, used with a problem-solving book.

Course Length: Two semesters

Materials: Chemistry: Problems and Solutions







Prerequisites: K¹² middle school Physical Science or SCI102: Physical Science and satisfactory grasp of algebra basics, evidenced by success in MTH122: Algebra I (or equivalent)

SCI303: Chemistry (Comprehensive)

This comprehensive course gives students a solid basis to move on to future studies. The course provides an in-depth survey of all key areas, including atomic structure, chemical bonding and reactions, solutions, stoichiometry, thermochemistry, organic chemistry, and nuclear chemistry. The course includes direct online instruction, virtual laboratories, and related assessments, used with a problem-solving book.

Course Length: Two semesters

Materials: Chemistry: Problems and Solutions

Prerequisites: Satisfactory completion of either K¹² middle school Physical Science or SCI102: Physical Science and solid grasp of algebra basics, evidenced by success in

MTH122: Algebra I (or equivalents)

SCI304: Honors Chemistry

This advanced course gives students a solid basis to move on to more advanced courses. The challenging course surveys all key areas, including atomic structure, chemical bonding and reactions, solutions, stoichiometry, thermochemistry, organic chemistry, and nuclear chemistry, enhanced with challenging model problems and assessments. Students complete community-based written research projects, treat aspects of chemistry that require individual research and reporting, and participate in online threaded discussions.

Course Length: Two semesters

Materials: Chemistry: Problems and Solutions

Prerequisites: Success in previous science course, MTH123 or MTH124 (Honors): Algebra

I (or equivalents), and teacher/school counselor recommendation

SCI306: Chemistry (Credit Recovery)

Students review concepts of matter, energy, the metric system, and the scientific method. Other topics include the atom; the periodic table; ionic and covalent bonds; chemical reactions; stoichiometry; gases, liquids, and solids; solutions; and acids and bases. Students review chemical thermodynamics; reaction rates and system equilibria; electrochemical processes; organic chemistry and biochemistry; and nuclear chemistry. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters

Materials: Chemistry: Problems and Solutions

Prerequisites: Student previously took the course or its equivalent, but did not receive

credit, and teacher/school counselor recommendation

SCI403: Physics (Comprehensive)

This course provides a comprehensive survey of all key areas: physical systems, measurement, kinematics, dynamics, momentum, energy, thermodynamics, waves, electricity, and magnetism, and introduces students to modern physics topics such

as quantum theory and the atomic nucleus. The course gives students a solid basis to move on to more advanced courses later in their academic careers. The program consists of online instruction, virtual laboratories, and related assessments, plus an associated problem-solving book.

Course Length: Two semesters

Materials: Physics: Problems and Solutions

Prerequisites: MTH303: Algebra II and MTH403: Pre-Calculus/Trigonometry (or equivalents) (MTH403 strongly recommended as a prerequisite, but this course may

instead be taken concurrently with SCI403)

SCI404: Honors Physics

This advanced course surveys all key areas: physical systems, measurement, kinematics, dynamics, momentum, energy, thermodynamics, waves, electricity, and magnetism, and introduces students to modern physics topics such as quantum theory and the atomic nucleus. Additional honors assignments include debates, research papers, extended collaborative laboratories, and virtual laboratories. The course gives a solid basis for moving on to more advanced college physics courses. The program consists of online instruction, virtual laboratories, and related assessments, plus an associated problem-solving book.

Course Length: Two semesters

Materials: Physics: Problems and Solutions

Prerequisites: MTH303: Algebra II or MTH304: Honors Algebra II and MTH403: Pre-Calculus/Trigonometry (MTH403 strongly recommended as a prerequisite, but this course may instead be taken concurrently with SCI404), and teacher/school counselor

recommendation

SCI500: AP Biology

This course guides students to a deeper understanding of biological concepts including the diversity and unity of life, energy and the processes of life, homeostasis, and genetics. Students learn about regulation, communication, and signaling in living organisms, as well as interactions of biological systems. Students carry out a number of learning activities, including readings, interactive exercises, extension activities, hands-on laboratory experiments, and practice assessments. These activities are designed to help students gain an understanding of the science process and critical-thinking skills necessary to answer questions on the AP Biology Exam. The content aligns to the sequence of topics recommended by the College Board.

Course Length: Two semesters

Materials: Common household materials for labs

Prerequisites: Success in SCI204: Honors Biology, SCI304: Honors Chemistry, SCI124: Honors Algebra I (or equivalents), and teacher/school counselor recommendation

required; success in SCI304: Honors Algebra II highly recommended

SCI510: AP Chemistry (NEW)

Students solve chemical problems by using mathematical formulation principles and chemical calculations in addition to laboratory experiments. They build on their general understanding of chemical principles and engage in a more in-depth study of the nature and reactivity of matter. Students focus on the structure of atoms, molecules,



and ions, and then go on to analyze the relationship between molecular structure and chemical and physical properties. To investigate this relationship, students examine the molecular composition of common substances and learn to transform them through chemical reactions with increasingly predictable outcomes. Students prepare for the AP exam. The course content aligns to the sequence of topics recommended by the College Board.

Course Length: Two semesters

Materials: If hands-on labs are required, materials for lab experiments must be acquired

Prerequisites: Success in SCI304: Honors Chemistry and MTH304: Honors Algebra II (or

equivalents), and teacher/school counselor recommendation

SCI520: AP Physics B

This course is the equivalent of an introductory college-level survey course, but does not require proficiency in calculus. Students focus on five general areas: Newtonian mechanics, thermal physics, electricity and magnetism, waves and optics, and atomic and nuclear physics. Students gain an understanding of the core principles of physics and then apply them to problem-solving exercises. They learn how to measure the mass of a planet without weighing it, find out how electricity makes a motor turn, and learn how opticians know how to shape lenses for glasses. Students prepare for the AP exam and for further study in science and engineering.

Course Length: Two semesters

Materials: Schaum's Outline of College Physics, by Bueche and Hecht, 11th ed.; other editions acceptable; materials for laboratory experiments; a graphing calculator is recommended to prepare for the AP exam (supplied by school or student).

Prerequisites: Success in MTH303: Algebra II or in MTH304: Honors Algebra II and MTH403: Pre-Calculus/Trigonometry (or equivalents), and teacher/school counselor recommendation

SCI530-AVT: AP Environmental Science

Students examine the natural world's interrelationships in AP Environmental Science. During this two-semester course, they identify and analyze environmental problems and their effects and evaluate the effectiveness of proposed solutions. They learn to think like environmental scientists as they make predictions based on observation, write hypotheses, design and complete field studies and experiments, and reach conclusions based on the analysis of resulting data. Students apply the concepts of environmental science to their everyday experiences, current events, and issues in science, politics, and society. The course provides opportunities for guided inquiry and student-centered learning that build critical thinking skills. Prerequisites for enrollment include two years of prior coursework in laboratory sciences (Biology, Chemistry, Earth Science, or Physics).

Course Length: Two semesters

Materials: Living in the Environment - 17th Edition; AP Environmental Science Lab Kit **Prerequisites:** Success in two years of laboratory sciences in the following (or equivalents): usually SCI204 or SCI500 (AP): Biology, or Life Science, and either SCI304 or SCI510 (AP): Chemistry or SCI404 or SCI520 (AP): Physics; and MTH124: Honors Algebra I; SCI114: Honors Earth Science is recommended, and teacher/school counselor recommendation

SCI010: Environmental Science (Elective)

This course surveys key topic areas including the application of scientific process to environmental analysis; ecology; energy flow; ecological structures; earth systems; and atmospheric, land, and water science. Topics also include the management of natural resources and analysis of private and governmental decisions involving the environment. Students explore actual case studies and conduct five hands-on, unit-long research activities, learning that political and private decisions about the environment and the use of resources require accurate application of scientific processes, including proper data collection and responsible conclusions.

Course Length: One semester

Prerequisites: Success in previous high school science course and teacher/school counselor recommendation

SCI030: Forensic Science (Elective)

This course surveys key topics in forensic science, including the application of the scientific process to forensic analysis, procedures and principles of crime scene investigation, physical and trace evidence, and the law and courtroom procedures from the perspective of the forensic scientist. Through online lessons, virtual and hands-on labs, and analysis of fictional crime scenarios, students learn about forensic tools, technical resources, forming and testing hypotheses, proper data collection, and responsible conclusions.

Course Length: One semester

Prerequisites: Successful completion of at least two years of high school science including SCI203: Biology (or equivalent); SCI303: Chemistry is highly recommended

HST102: World History (Core)

In this survey of world history from prehistoric to modern times, students focus on the key developments and events that have shaped civilization across time. The course is organized chronologically and, within broad eras, regionally. Lessons address developments in religion, philosophy, the arts, science and technology, and political history. The course also introduces geography concepts and skills within the context of the historical narrative. Online lessons and assessments complement *World History: Our Human Story,* a textbook written and published by K¹². Students analyze primary sources and maps, create timelines, and complete other projects—practicing historical thinking and writing skills as they explore the broad themes and big ideas of human history.

Course Length: Two semesters

Materials: World History: Our Human Story

Prerequisites: K¹² middle school American History A, World History A or World History B

(or equivalents)

HISTORY & SOCIAL STUDIES

HST103: World History (Comprehensive)

In this comprehensive survey of world history from prehistoric to modern times, students focus in depth on the developments and events that have shaped civilization across time. The course is organized chronologically and, within broad eras, regionally. Lessons address developments in religion, philosophy, the arts, science and technology, and political history. The course also introduces geography concepts and skills within

HISTORY & SOCIAL STUDIES

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the context of the historical narrative. Online lessons and assessments complement *World History: Our Human Story*, a textbook written and published by K¹². Students are challenged to consider topics in depth as they analyze primary sources and maps, create timelines, and complete other projects—practicing historical thinking and writing skills as they explore the broad themes and big ideas of human history.

Course Length: Two semesters

Materials: World History: Our Human Story

Prerequisites: K¹² middle school American History A, World History A or World History B

(or equivalents)

HST104: Honors World History

In this challenging survey of world history from prehistoric to modern times, students focus in-depth on the developments and events that have shaped civilization across time. The course is organized chronologically and, within broad eras, regionally. Lessons address developments in religion, philosophy, the arts, science and technology, and political history. The course also introduces geography concepts and skills within the context of the historical narrative. Online lessons and assessments complement *World History: Our Human Story*, a textbook written and published by K¹². Students are challenged to consider topics in depth as they analyze primary sources and maps, create timelines, and complete other projects—practicing advanced historical thinking and writing skills as they explore the broad themes and big ideas of human history. Students complete an independent honors project each semester.

Course Length: Two semesters

Materials: World History: Our Human Story

Prerequisites: K¹² middle school American History A, World History A or World History B

(or equivalents)

HST106: World History (Credit Recovery)

This course traces the development of civilizations around the world from prehistory to the present, with a special emphasis on key periods and primary sources. The course covers major events in world history, including the development and influence of human-geographic relationships, political and social structures, economics, science and technology, and the arts. Students investigate the major religions and belief systems throughout history and learn about the importance of trade and cultural exchange. Other topics include the development of agriculture, the spread of democracy, the rise of nation-states, the industrial era, the spread of imperialism, and the issues and conflicts of the twentieth century. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters

Materials: World History: Our Human Story

Prerequisites: Student previously took the course or its equivalent, but did not receive

credit, and teacher/school counselor recommendation

HST202: Modern World Studies (Core)

Students trace the history of the world from approximately 1870 to the present. They begin with a look back at events leading up to 1914, including the Second Industrial Revolution and the imperialism that accompanied it. Their focus then shifts to the contemporary era, including two world wars, the Great Depression, and global Cold War tensions. Students examine both the staggering problems and astounding

accomplishments of the twentieth century, with a focus on political and social history. Students also explore topics in physical and human geography, and investigate issues of concern in the contemporary world. Online lessons help students organize study, explore topics, review in preparation for assessments, and practice skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research.

Course Length: Two semesters

Materials: The Human Odyssey, Volume 3

Prerequisites: K¹² middle school Intermediate World History A and B (or equivalents)

HST203: Modern World Studies (Comprehensive)

In this comprehensive course, students follow the history of the world from approximately 1870 to the present. They begin with a study of events leading up to 1914, including the Second Industrial Revolution and the imperialism that accompanied it. Their focus then shifts to the contemporary era, including two world wars, the Great Depression, and global Cold War tensions. Students examine both the staggering problems and astounding accomplishments of the twentieth century, with a focus on political and social history. Students also explore topics in physical and human geography, and investigate issues of concern in the contemporary world. Online lessons help students organize study, explore topics, review in preparation for assessments, and practice sophisticated skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research.

Course Length: Two semesters

Materials: The Human Odyssey, Volume 3

Prerequisites: K¹² middle school Intermediate World History A and B (or equivalents)

HST204: Honors Modern World Studies

In this advanced course, students investigate the history of the world from approximately 1870 to the present. They begin with an analysis of events leading up to 1914, including the Second Industrial Revolution and the imperialism that accompanied it. Their focus then shifts to the contemporary era, including two world wars, the Great Depression, and global Cold War tensions. Students undertake an in-depth examination of both the staggering problems and astounding accomplishments of the twentieth century, with a focus on political and social history. Students also explore advanced topics in physical and human geography, and investigate issues of concern in the contemporary world. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting research. Students complete independent projects each semester.

Course Length: Two semesters

Materials: The Human Odyssey, Volume 3

Prerequisites: K12 middle school Intermediate World History A and B (or

equivalents), success in previous social studies course, and teacher/school counselor

recommendation

HST206: Modern World Studies (Credit Recovery)

Students review the history of the world from approximately 1870 to the present. The course begins with a look back at events leading up to 1914, including the Second Industrial Revolution and imperialism. Their focus then shifts to the contemporary era, including the World Wars, the Great Depression, and global Cold War tensions. Students also explore topics in physical and human geography, and investigate issues of concern in the contemporary world. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters

Materials: The Human Odyssey, Volume 3

Prerequisites: Student previously took the course or its equivalent, but did not receive

credit; teacher/school counselor recommendation required

HST212: Geography and World Cultures (Core)

This one-semester course introduces students to the countless ways in which geography influences human relationships, politics, society, economics, science, technology, and the arts. Special emphasis is placed on the way geographically derived information is expressed in maps, charts, and graphs in order to teach students how to analyze and create such documents.

Course Length: One semester

Prerequisites: HST102: World History (or equivalent) is recommended, but not required

HST213: Geography and World Cultures (Comprehensive)

This one-semester course uses geographic features to explore how human relationships, political and social structures, economics, science, technology, and the arts have developed and influenced life in countries around the world. Throughout the course, students learn how to read maps, charts, and graphs rigorously and critically—and how to create them. Examining the intersection of culture and geography, students discover how a mountain in the distance can inspire national policymakers, civil engineers, or poets; how a river triggers the activity of bridge builders, shipbuilders, and merchants alike; and how the sound of a busy Cairo street can inspire sociologists and musicians. Students come to understand how the drama of human history and cultural encounters—affecting land, natural resources, religious dominance, and more—is played out on the geographical stage

Course Length: One semester

Prerequisites: HST103: World History (or equivalent) is recommended, but not required

HST216-AVT: Geography (Credit Recovery)

This course examines a broad range of geographical perspectives covering all of the major regions of the world. Students clearly see the similarities and differences among the regions as they explore the locations and physical characteristics, including absolute and relative location, climate, and significant geographical features. They look at each region from cultural, economic, and political perspectives, and closely examine the human impact on each region. Students take diagnostic tests that assess their current knowledge and generate individualized study plans, so students can focus on topics that need review. Audio readings and vocabulary lists in English and Spanish support reading comprehension.





Course Length: Two semesters

Prerequisites: Student previously took the course or its equivalent, but did not receive credit; teacher/school counselor recommendation required

HST302: U.S. History (Core)

This course is a full-year survey that provides students with a view of American history from the first migrations of nomadic people to North America to recent events. Readings are drawn from K¹²'s *The American Odyssey: A History of the United States.* Online lessons help students organize their study, explore topics, review in preparation for assessments, and practice skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research.

Course Length: Two semesters

Materials: The American Odyssey: A History of the United States

Prerequisites: K¹² middle school Intermediate World History B or HST102: World History

(or equivalents)

HST303: U.S. History (Comprehensive)

This course is a full-year survey that provides students with a comprehensive view of American history from the first migrations of nomadic people to North America to recent events. Readings are drawn from K¹²'s *The American Odyssey: A History of the United States*. Online lessons help students organize their study, explore topics in depth, review in preparation for assessments, and practice skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating time lines, completing projects and written assignments, and conducting independent research.

Course Length: Two semesters

Materials: The American Odyssey: A History of the United States

Prerequisites: HST103: World History or HST203: Modern World Studies (or

equivalents)

HST304: Honors U.S. History

This course is a challenging full-year survey that provides students with a comprehensive view of American history from the first migrations of nomadic people to North America to recent events. Readings are drawn from K¹²'s *The American Odyssey: A History of the United States*. Online lessons help students organize their study, explore topics in depth, review in preparation for assessments, and practice advanced skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research. Students complete independent projects each semester.

Course Length: Two semesters

Materials: The American Odyssey: A History of the United States

Prerequisites: HST103 or HST104 (Honors): World History, or HST203 or HST204 (Honors): Modern World Studies (or equivalents), and teacher/school counselor

recommendation

HST306: U.S. History (Credit Recovery)

Students review the rise of European nations and the Age of Exploration; the founding of the American colonies; the American Revolution; and the Declaration of

HISTORY & SOCIAL STUDIES

High



Independence, the Articles of Confederation, and the Constitution. Other topics include the Civil War, migration across the Great Plains, immigration to American shores, and the rise of new ways of manufacturing. Students review the early years of the modern age and the rise of modern cities and our modern political system; the World Wars; the Depression and the New Deal; the Cold War; Vietnam; the opposing ideologies of conservatives and liberals; September 11; and the resultant changes in American foreign and domestic policies. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters

Materials: The American Odyssey: A History of the United States

Prerequisites: Student previously took the course or its equivalent, but did not receive

credit, and teacher/school counselor recommendation

HST312: Modern U.S. History (Core)

This course is a full-year survey that provides students with a view of American history from the industrial revolution of the late nineteenth century to recent events. Readings are drawn from K¹²'s *The American Odyssey: A History of the United States.* Online lessons help students organize study, explore topics, review in preparation for assessments, and practice skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research.

Course Length: Two semesters

Materials: The American Odyssey: A History of the United States

Prerequisites: K¹² middle school American History A and American History B

(or equivalents)

HST313: Modern U.S. History (Comprehensive)

This course is a full-year survey that provides students with a comprehensive view of American history from the industrial revolution of the late nineteenth century to recent events. Readings are drawn from K¹²'s *The American Odyssey: A History of the United States*. Online lessons help students organize study, explore topics in-depth, review in preparation for assessments, and practice skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research.

Course Length: Two semesters

Materials: The American Odyssey: A History of the United States

Prerequisites: K12 middle school American History A and American History B

(or equivalents)

HST314: Honors Modern U.S. History

This course is a challenging full-year survey that provides students with a comprehensive view of American history from the industrial revolution of the late nineteenth century to recent events. Readings are drawn from K¹²'s *The American Odyssey: A History of the United States*. Online lessons help students organize study, explore topics in depth, review in preparation for assessments, and practice advanced skills of historical thinking

and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research. Students complete independent projects each semester.

Course Length: Two semesters

Materials: The American Odyssey: A History of the United States

Prerequisites: K12 middle school American History A and American History B

(or equivalents) and teacher/school counselor recommendation

HST316: Modern U.S. History (Credit Recovery)

Students review American history from the industrial revolution of the late nineteenth century to recent events. They review how the American system of government works under the United States Constitution; federalism; settlement of the Great American West; issues of immigration and urban life; and the hopes, demands, and challenges African-Americans and women faced as they sought equality. Other topics include the World Wars; the American Dream; the Civil Rights movement; Vietnam; Watergate; Reaganomics; the collapse of the Soviet Union; immigration trends; the Clinton years; and the new millennium. Diagnostic tests assess students' current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters

Materials: The American Odyssey: A History of the United States

Prerequisites: Student previously took the course or its equivalent, but did not receive

credit, and teacher/school counselor recommendation

HST402: U.S. Government and Politics (Core)

This course uses the perspective of political institutions to explore government history, organization, and functions. Students encounter the political culture of our country from the Declaration of Independence to the present day, gaining insight into the challenges faced by presidents, members of Congress, and other political participants. The course also covers the roles of political parties, interest groups, the media, and the Supreme Court. Students learn to use primary historical documents as evidence in evaluating past events and government functions.

Course Length: One semester

Prerequisites: HST302: U.S. History (or equivalent) is recommended,

but not required

HST403: U.S. Government and Politics (Comprehensive)

This course studies the history, organization, and functions of the United States government. Beginning with the Declaration of Independence and continuing through to the present day, students explore the relationship between individual Americans and our governing bodies. Students take a close look at the political culture of our country and gain insight into the challenges faced by citizens, elected government officials, political activists, and others. Students also learn about the roles of political parties, interest groups, the media, and the Supreme Court, and discuss their own views on current political issues.

Course Length: One semester

Prerequisites: HST303: U.S. History (or equivalent) is recommended, but not required



HST406-AVT: American Government (Credit Recovery)

This one-semester credit recovery course covers the historical backgrounds, governing principles, and institutions of the government of the United States. The focus is on the principles and beliefs that the United States was founded on and on the structure, functions, and powers of government at the national, state, and local levels. In American Government, students examine the principles of popular sovereignty, separation of powers, checks and balances, republicanism, federalism, and individual rights. They also learn about the roles of individuals and groups in the American political system. Students compare the American system of government with other modern systems and assess the strengths and problems associated with the American version.

Course Length: One semester

Prerequisites: Student previously took the course or its equivalent, but did not receive credit, and teacher/school counselor recommendation

HST412: U.S. and Global Economics (Core)

This course in economic principles uses real-world simulations to teach the issues faced by producers, consumers, investors, and taxpayers in the U.S. and around the world. Topics include markets; supply and demand; theories of early economic thinkers; theories of value; money; the role of banks, investment houses, and the Federal Reserve; and other fundamental features of capitalism. A survey of current issues in American and global markets rounds out the course.

Course Length: One semester

Prerequisites: HST402: U.S. Government and Politics (or equivalent) is recommended, but not required

HST413: U.S. and Global Economics (Comprehensive)

In this course on economic principles, students explore choices they face as producers, consumers, investors, and taxpayers. Students apply what they learn to real-world simulation problems. Topics of study include markets from historic and contemporary perspectives; supply and demand; theories of early economic philosophers such as Adam Smith and David Ricardo; theories of value; money (what it is, how it evolved, the role of banks, investment houses, and the Federal Reserve); Keynesian economics; how capitalism functions, focusing on productivity, wages, investment, and growth; issues of capitalism, such as unemployment, inflation, and the national debt; and a survey of markets in such areas as China, Europe, and the Middle East.

Course Length: One semester

Prerequisites: HST403: U.S. Government and Politics (or equivalent) is recommended, but not required

HST416-AVT: Economics (Credit Recovery)

In this one-semester credit recovery course, students gain a basic understanding of economics. The course uses real-world economic applications to help students better grasp a range of economic concepts, including macro- and microeconomic concepts. The course covers the American free enterprise system and addresses how this system

affects the global economy. Students learn how to think like economists as they study economic principles and different economic systems. They analyze and interpret data to understand the laws of supply and demand. Examining the world of business, money, banking, and finance helps students understand how economics is applied both domestically and globally.

Course Length: One semester

Prerequisites: Student previously took the course or its equivalent, but did not receive credit, and teacher/school counselor recommendation

HST500: AP U.S. History

Students explore and analyze the economic, political, and social transformation of the United States since the time of the first European encounters. Students are asked to master not only the wide array of factual information necessary to do well on the AP exam, but also to practice skills of critical analysis of historical information and documents. Students read primary and secondary source materials and analyze problems presented by historians to gain insight into challenges of interpretation and the ways in which historical events have shaped American society and culture. The content aligns to the sequence of topics recommended by the College Board and to widely used textbooks. Students prepare for the AP exam.

Course Length: Two semesters

Materials: America: A Narrative History, by Tindall et al., 8th ed; other editions

acceptable

Prerequisites: Success in previous history course and teacher/school counselor

recommendation

HST510: AP U.S. Government and Politics

This course is the equivalent of an introductory college-level course. Students explore the operations and structure of the U.S. government and the behavior of the electorate and politicians. Students gain the analytical perspective necessary to evaluate political data, hypotheses, concepts, opinions, and processes and learn how to gather data about political behavior and develop their own theoretical analysis of American politics. Students also build the skills they need to examine general propositions about government and politics, and to analyze specific relationships between political, social, and economic institutions. Students prepare for the AP exam and for further study in political science, law, education, business, and history.

Course Length: One semester

Materials: The Lanahan Readings in the American Polity, 5th ed.; American

Government, by Lowi et al., 12th ed.; other editions acceptable

Prerequisites: Success in HST304: Honors U.S. History (or equivalent) and teacher/

school counselor recommendation

HST520: AP Macroeconomics

This course is the equivalent of an introductory college-level course. Students learn why and how the world economy can change from month to month, how to identify trends in our economy, and how to use those trends to develop performance measures and predictors of economic growth or decline. Students also examine how individuals and institutions are influenced by employment rates, government spending, inflation, taxes, and production. Students prepare for the AP exam and for further study in business, political science, and history.

SOCIAL STUDIES

Course Length: One semester

Materials: Macroeconomics for Today, 4th Ed., ISBN: 0-324-30197-9

Prerequisites: MTH304: MTH304: Honors Algebra II (or equivalent) and teacher/school

counselor recommendation

HST530: AP Microeconomics

This course is the equivalent of an introductory college-level course. Students explore the behavior of individuals and businesses as they exchange goods and services in the marketplace. Students learn why the same product can cost different amounts at different stores, in different cities, and at different times. Students also learn to spot patterns in economic behavior and learn how to use those patterns to explain buyer and seller behavior under various conditions. Lessons promote an understanding of the nature and function of markets, the role of scarcity and competition, the influence of factors such as interest rates on business decisions, and the role of government in the economy. Students prepare for the AP exam and for further study in business, history, and political science.

Course Length: One semester

Materials: Microeconomics for Today, 4th Ed., ISBN: 0-324-30192-8

Prerequisites: Success in MTH304: Honors Algebra II (or equivalent) and teacher/school

counselor recommendation

HST540: AP Psychology

This course is the equivalent of an introductory college-level course. Students receive an overview of current psychological research methods and theories. They explore the therapies used by professional counselors and clinical psychologists, and examine the reasons for normal human reactions: how people learn and think, the process of human development and human aggression, altruism, intimacy, and self-reflection. They study core psychological concepts, such as the brain and sensory functions, and learn to gauge human reactions, gather information, and form meaningful syntheses. Students prepare for the AP Exam and for further studies in psychology and life sciences.

Course Length: One semester

Materials: Psychology by David G. Myers, 9th ed.

Prerequisites: Success in SCI204: Honors Biology (or equivalent) and teacher/school

counselor recommendation

HST550: AP European History

This course is the equivalent of an introductory college-level course. It explores political, diplomatic, social, economic, cultural, and intellectual themes in European history from 1450 to the present. Students cultivate higher-order thinking and writing skills that are assessed through essays, various writing activities, quizzes, and tests. They apply their historical analysis during threaded discussions, mock trials, and an Enlightenment Salon. The course scope and rigor helps prepare students for the AP European History Exam along with further study in the humanities.

Course Length: Two semesters

Prerequisites: Success in previous history course and teacher/school counselor

recommendation





HST560: AP World History

This course spans the Neolithic age to the present in a rigorous academic format organized by chronological periods and viewed through fundamental concepts and course themes. Students analyze the causes and processes of continuity and change across historical periods. Themes include human-environment interaction, cultures, expansion and conflict, political and social structures, and economic systems. In addition to mastering historical content, students cultivate historical thinking skills that involve crafting arguments based on evidence, identifying causation, comparing and supplying context for events and phenomenon, and developing historical interpretation.

Course Length: Two semesters

Materials: Siddhartha by Herman Hesse, King Leopold's Ghost: A Story of Greed, Terror, and Heroism in Colonial Africa by Adam Hochschild (supplied by school or student) **Prerequisites:** Success in previous history course and teacher/school counselor

recommendation

HST010-APL: Anthropology (Elective)

Anthropologists research the characteristics and origins of the cultural, social, and physical development of humans and consider why some cultures change and others come to an end. In this course, students are introduced to the five main branches of anthropology: physical, cultural, linguistic, social, and archeological. Through instruction and their own investigation and analysis, students explore these topics, considering their relationship to other social sciences such as history, geography, sociology, economics, political science, and psychology. Emulating professional anthropologists, students apply their knowledge and observational skills to the real-life study of cultures in the United States and around the world. The content in this course meets or exceeds the standards of the National Council for the Social Studies (NCSS).

Course Length: One semester

Prerequisites: HST103: World History (or equivalent) recommended as a prerequisite or co-requisite, but not required

HST020-AVT: Psychology (Elective)

In this course, students investigate why human beings think and act the way they do. This is an introductory course that broadly covers several areas of psychology. Instructional material presents theories and current research for students to critically evaluate and understand. Each unit introduces terminology, theories, and research that are critical to the understanding of psychology and includes tutorials and interactive exercises. Students learn how to define and use key terms of psychology and how to apply psychological principles to their own lives. Unit topics in this one-semester course include methods of study, biological basis for behavior, learning and memory, development and individual differences, and psychological disorders.

Course Length: One semester

Prerequisites: None

HST030-AVT: Economics (Elective)

Students are introduced to the basics of economic principles, and learn how to think like economists. They explore different economic systems, including the American free enterprise system, analyze and interpret data, and consider economic applications in



today's world. From economics in the world of business, money, banking, and finance, students see how economics is applied both domestically and globally. Students take diagnostic tests that assess their current knowledge and generate individualized study plans, so students can focus on topics that need review. Audio readings and vocabulary lists in English and Spanish support reading comprehension.

Course Length: One semester

Prerequisites: None

HST040-AVT: Civics (Elective)

Civics is the study of citizenship and government. This one-semester course provides students with a basic understanding of civic life, politics, and government, and a short history of government's foundation and development in this country. Students learn how power and responsibility are shared and limited by government, the impact American politics has on world affairs, the place of law in the American constitutional system, and which rights the American government guarantees its citizens. Students also examine how the world is organized politically and how civic participation in the American political system compares to that in other societies around the world today.

Course Length: One semester

Prerequisites: None

HST050-AVT: Sociology (Elective)

Through this two-semester course, students explore human relationships in society. Instructional materials emphasize culture, social structure, the individual in society, institutions, and social inequality. Unit topics for the first semester include society and culture, what is sociology, the nature of culture, conformity and deviance, social structure, roles, relationships and groups, and social stratification. In the second semester, students learn about social institutions, the family, religion and education, government and economic systems, the individual in society, the early years, adolescence, the adult years, continuity and change, communities and change, social movements and collective behavior, social problems, minorities and discrimination, poverty, crime, and problems of mass society. Students use a textbook for the course.

Course Length: Two semesters

Materials: Sociology: Study of Human Relationships, 6th edition by W. LaVerne Thomas;

other editions acceptable **Prerequisites:** None

HST222-AVT: Contemporary World Issues (Elective)

Students analyze governments, economies, peoples, and cultures from around the world in this course. Instruction emphasizes the structures and policies of the United States and how they compare to other systems in the international community. Students apply critical thinking and research skills to examine current events and contemporary issues, including human rights, the strengths and weaknesses of globalization, America's role in the international economy, the severe environmental threats facing many regions around the world today, how religion is often used to facilitate and justify violence, and America's "War on Terror" and its impact on the Middle East and Islamic culture.

Course Length: Two semesters

Prerequisites: None

WLG100: Spanish I (NEW)

Students begin their introduction to Spanish by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended. *Vox Everyday Spanish and English Dictionary* or equivalent is recommended.

Note: Students who have already completed Middle School Spanish 2 should enroll in Spanish II rather than in Spanish I.

WLG106-AVT: Spanish I (Credit Recovery)

This credit recovery course provides students with instruction in the basics of learning the language of Spanish. Content includes topics such as greetings, time, dates, colors, clothing, numbers, weather, family, houses, sports, food and drink, and school. The course also introduces basic and stem-changing verbs and their formation and use in the present tense. Students also learn about interrogatives, question formation, and adjectives and their form and use, in addition to possessives, prepositions, and other grammatical structures. Finally, students become acquainted with the Spanish-speaking countries of the world and their cultures, and they learn practical information, such as restaurant vocabulary and expressions of invitation.

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended. *Vox Everyday Spanish and English Dictionary* or equivalent is recommended. **Prerequisites:** Student previously took the course or its equivalent, but did not receive credit, and teacher/school counselor recommendation

WLG200: Spanish II (NEW)

Students continue their study of Spanish by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, understand common vocabulary terms and phrases, use a wide range of



grammar patterns in their speaking and writing, participate in conversations and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, and take frequent assessments where their language progression can be monitored. By semester 2, the course is conducted almost entirely in Spanish. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended. *Vox Everyday Spanish and English Dictionary* or equivalent is recommended.

Prerequisites: WLG100: Spanish I, middle school Spanish 1 and 2 (or equivalents)

WLG300: Spanish III (NEW)

Students further deepen their understanding of Spanish by focusing on the three modes of communication: interpretive, interpersonal, and presentational. Each unit consists of a variety of activities which teach the students how to understand more difficult written and spoken passages, to communicate with others through informal speaking and writing interactions, and to express their thoughts and opinions in more formal spoken and written contexts. Students should expect to be actively engaged in their own language learning, use correct vocabulary terms and phrases naturally, incorporate a wide range of grammar concepts consistently and correctly while speaking and writing, participate in conversations covering a wide range of topics and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, read and analyze important pieces of Hispanic literature, and take frequent assessments where their language progression can be monitored. The course is conducted almost entirely in Spanish. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended. *Vox Everyday Spanish and English Dictionary* or equivalent is recommended.

Prerequisites: WLG200: Spanish II (or equivalent)

WLG400-AVT: Spanish IV

Fourth-year Spanish expands on the foundation of Spanish grammar and vocabulary that students acquired in the first three courses. As with all the earlier offerings, this culminating-level Spanish language course conforms to the standards of the American Council on the Teaching of Foreign Languages (ACTFL). Students continue to sharpen their speaking, listening, reading and writing skills while also learning to express themselves on topics relevant to Spanish culture. The two-semester course is divided into ten units whose themes include people, achievements, wishes and desires, activities, celebrations, possibilities, the past, the arts, current events, and wrap up and review.

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended. *Vox Everyday Spanish and English Dictionary* or equivalent is recommended.

Prerequisites: WLG300: Spanish III (or equivalent)

WLG500: AP Spanish Language and Culture (NEW)

The AP Spanish Language and Culture course is an advanced language course in which students acquire proficiencies that expand their cognitive, analytical and communicative skills. The AP Spanish Language and Culture course prepares students for the College Board's AP Spanish Language and Culture exam. It uses as its foundation the three modes of communication (Interpersonal, Interpretive and Presentational) as defined in the Standards for Foreign Language Learning in the 21st Century.

The course is designed as an immersion experience and is conducted almost exclusively in Spanish. In addition, all student work, practices, projects, participation, and assessments are in Spanish.

The course is based on the six themes required by the College Board, namely,

- 1. Global challenges
- 2. Science and technology
- 3. Contemporary life
- 4. Personal and public identities
- 5. Families and communities
- 6. Beauty and aesthetics

The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. In addition, students participate in a forum where they are able to share their own opinions and comments about various topics and comment on other students' posts. The course also makes great use of the Internet for updated and current material.

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended. *Vox Everyday Spanish and English Dictionary* or equivalent is recommended.

Prerequisites: Strong success in WLG300: Spanish III, or success in WLG400-AVT: Spanish IV (or equivalents), and teacher/school counselor recommendation

WLG110: French I (NEW)

Students begin their introduction to French by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various French-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).



Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended. *Larousse Student French-English/English-French Dictionary* or equivalent is recommended.

Prerequisites: None

Note: Students who have already completed Middle School French 2 should enroll in French II rather than in French I.

WLG210: French II (NEW)

Students continue their study of French by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, understand common vocabulary terms and phrases, use a wide range of grammar patterns in their speaking and writing, participate in conversations and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various French-speaking countries, and take frequent assessments where their language progression can be monitored. By semester 2, the course is conducted almost entirely in French. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended. *Larousse Student French-English/English-French Dictionary* or equivalent is recommended.

Prerequisites: WLG110: French I, middle school French 1 and 2 (or equivalents)

WLG310: French III (NEW)

interpretive, interpersonal, and presentational. Each unit consists of a variety of activities which teach the students how to understand more difficult written and spoken passages, to communicate with others through informal speaking and writing interactions, and to express their thoughts and opinions in both formal and Informal spoken and written contexts. Students should expect to be actively engaged in their own language learning, use correct vocabulary terms and phrases naturally, incorporate a wide range of grammar concepts consistently and correctly while speaking and writing, participate in conversations covering a wide range of topics, respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various French-speaking countries, read and analyze important pieces of literature, and take frequent assessments where their language progression can be monitored. The course is conducted almost entirely in French. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended. *Larousse Student French-English/English-French Dictionary* or

equivalent is recommended.

Prerequisites: WLG210: French II (or equivalent)

WLG410-AVT: French IV

Students complete their high school French language education with this two-semester course that, like all of its predecessors, conforms to the national standards of the ACTFL. The instructional material in French IV enables students to use the conditional and subjunctive tenses, and talk about the past with increasing ease, distinguishing which tense to use and when. It also helps students hone their listening skills to enhance their understanding of native speech patterns on familiar topics. Students expand their knowledge of French-speaking countries' culture, history, and geography and learn about francophone contributions in the arts. Students must pass French III as a prerequisite.

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended. *Larousse Student French-English/English-French Dictionary* or

equivalent is recommended.

Prerequisites: WLG310: French III (or equivalent)

WLG510: AP French Language and Culture (NEW)

The AP French Language and Culture course is an advanced language course in which students are directly prepared for the AP French Language and Culture test. It uses as its foundation the three modes of communication: interpersonal, interpretive and presentational. The course is conducted almost exclusively in French. The course is based on the six themes required by the College Board: (1) global challenges, (2) science and technology, (3) contemporary life, (4) personal and public identities, (5) families and communities, and (6) beauty and aesthetics. The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. Students should expect to listen to, read, and understand a wide-variety of authentic French-language materials and sources, demonstrate proficiency in interpersonal, interpretive, and presentational communication using French, gain knowledge and understanding of the cultures of the Francophone world, use French to connect with other disciplines and expand knowledge in a wide-variety of contexts, develop insight into the nature of the French language and its culture, and use French to participate in communities at home and around the world. The AP French Language course is a college level course. The intensity, quality, and amount of course material can be compared to that of a third-year college course.

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended. *Larousse Student French-English/English-French Dictionary* or equivalent is recommended.

Prerequisites: Strong success in WLG310: French III, or success in WLG410-AVT: French IV (or equivalents), and teacher/school counselor recommendation



WLG120: German I (NEW)

Students begin their introduction to German by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations, respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various German-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages). Note: Students who have already completed Middle School German 2 should enroll in German II rather than in German I.

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended. *Larousse German Dictionary* or equivalent is recommended.

Prerequisites: None

Note: Students who have already succeeded in middle school German 2 should enroll in German II rather than in German I.

WLG220: German II (NEW)

Students continue their study of German by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, understand common vocabulary terms and phrases, use a wide range of grammar patterns in their speaking and writing, participate in conversations, respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various German-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Course Length: Two semesters

Materials: *L*A speaker and microphone are necessary; a headset combination is recommended. *Larousse German Dictionary* or equivalent is recommended. **Prerequisites:** WLG120: German I, middle school German 1 and 2 (or equivalents)

WLG320-AVT: German III

This course expands the scope of concepts and information that students mastered in the German I and II courses and aligns with national ACTFL standards. Students learn increasingly complex grammatical constructions, such as present, imperfect, perfect, and future tenses; reflexive and modal verbs; prepositions; conjunctions; relative pronouns; and adjective endings. Unit themes in this two-semester course include vacations, travel, leisure time, healthy living, body parts and ailments, family members, rights and responsibilities, household chores, university study, military service, personal relationships, the importance of appearance, emotions, fairy tales, and animals. Unit activities blend different forms of communication and culture.

Course Length: Two semesters

Materials: LA speaker and microphone are necessary; a headset combination is recommended. *Larousse German Dictionary* or equivalent is recommended.

Prerequisites: WLG220: German II (or equivalent)

WLG420-AVT: German IV

German IV builds on the foundation of the first three courses. Students continue to sharpen their speaking, listening, reading, and writing skills while also learning to express themselves on topics relevant to German culture. Authentic texts, current culture, and literature from Germany, Austria, and Switzerland all form part of the instructional material for this course. Each unit focuses on a particular region or city and includes such themes as culture, tourism, and current events. These units cover topics such as contemporary and classical music, expressing opinion, German history, transportation, family weekend travel, shopping, free-time activities, technology, multiculturalism, education, and careers.

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended. *Larousse German Dictionary* or equivalent is recommended.

Prerequisites: WLG320-AVT: German III (or equivalent)

WLG130: Latin I (NEW)

Since mastering a classical language presents different challenges from learning a spoken world language, students learn Latin through ancient, time-honored, classical language approaches which include repetition, parsing, written composition, and listening exercises. These techniques, combined with a modern multimedia approach to learning grammar, syntax, and vocabulary, provide students with a strong foundation for learning Latin. Each unit consists of a new vocabulary theme and grammar concept, reading comprehension activities, writing activities, multimedia culture, history, and mythology presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on engaging with authentic classical Latin through weekly encounters with ancient passages from such prestigious authors as Virgil, Ovid, and Lucretius. The curriculum concurs with the Cambridge school of Latin; therefore, students will learn ancient high classical styles of pronunciation and grammar in lieu of generally less sophisticated medieval styles, making it possible for students to comprehend the most Latin from the widest range of time periods. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, understand and analyze



the cultural and historical contexts of the ancient sources they study, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages). Note: Students who have already completed Middle School Latin 2 should enroll in Latin II rather than in Latin I.

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended. *Bantam New College Latin & English Dictionary* or equivalent is

recommended. **Prerequisites:** None

WLG230: Latin II (NEW)

Students continue with their study of Latin through ancient, time-honored, classical language approaches which include repetition, parsing, written composition, and listening exercises. These techniques, combined with a modern multimedia approach to learning grammar, syntax, and vocabulary, prepare students for a deeper study of Latin. Each unit consists of a new vocabulary theme and grammar concept, reading comprehension activities, writing activities, multimedia culture, history, and mythology presentations, and interactive activities and practices which reinforce vocabulary and grammar. The emphasis is on reading Latin through engaging with myths from the ancient world which are presented in Latin. The curriculum concurs with the Cambridge school of Latin; therefore, students will learn ancient high classical styles of pronunciation and grammar in lieu of generally less sophisticated medieval styles, making it possible for students to comprehend the most Latin from the widest range of time periods. Students should expect to be actively engaged in their own language learning, understand and use common vocabulary terms and phrases, comprehend a wide range of grammar patterns, understand and analyze the cultural and historical contexts of the ancient sources they study, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended. *Bantam New College Latin & English Dictionary* or equivalent is recommended.

Prerequisites: WLG130: Latin I (or equivalent)

WLG140: Chinese I (NEW)

Students begin their introduction to Chinese by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Both Chinese characters and pinyin are presented together throughout the course and specific character practices are introduced after the first quarter. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond

appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various Chinese-speaking regions, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages). Note: Students who have already completed Middle School Chinese 2 should enroll in Chinese II rather than in Chinese I.

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended. *Oxford Beginner's Chinese Dictionary* or equivalent is recommended.

Prerequisites: None

WLG240: Chinese II (NEW)

Students continue their study of Chinese by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Character recognition and practice are a key focus of the course and students are expected to learn several characters each unit. However, pinyin is still presented with characters throughout the course to aid in listening and reading comprehension. Students should expect to be actively engaged in their own language learning, understand common vocabulary terms and phrases, use a wide range of grammar patterns in their speaking and writing, participate in conversations and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various Chinese-speaking regions, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended. *Oxford Beginner's Chinese Dictionary* or equivalent is recommended. **Prerequisites:** WLG140: Chinese I, middle school Chinese 1 and 2 (or equivalents)

WLG150-AVT: Japanese I

Students become familiar with the fundamental concepts and constructions of the Japanese language as well as the rich and ancient world of Japanese culture in this two-semester course. Japanese I has been designed to meet the standards of the American Council on the Teaching of Foreign Languages (ACTFL). Unit topics consist of the alphabet and numbers; greetings; introductions; the calendar (days, months, and seasons); weather; time; colors; familiar objects and places; family; food; pastimes; and school objects and routine. Course strategies include warm-up activities, vocabulary study, reading, threaded discussions, multimedia presentations, self-checks, practice activities and games, oral and written assignments, projects, quizzes, and exams.

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended. *Oxfords Japanese Dictionary* or equivalent is recommended.

Prerequisites: None

WLG250-AVT: Japanese II

In Japanese II, course content blends different forms of communication and culture via unit activities to ensure that students meet all standards of the American Council on the Teaching of Foreign Languages (ACTFL). These standards call for a focus on successful oral and written communication as well as a through grounding in Japanese culture. Unit themes for both semesters cover a broad range of useful everyday subjects, including daily routine, animals, entertainment, body parts, rooms and furniture, shopping and clothing, meals, sports and recreation, and transportation. Students must successfully complete Japanese I in order to enroll in this course.

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended. *Oxfords Japanese Dictionary* or equivalent is recommended

Prerequisites: WLG150-AVT: Japanese I (or equivalent)

ART010: Fine Art (Elective)

This course combines art history, appreciation, and analysis, while engaging students in hands-on creative projects. Lessons introduce major periods and movements in art history while focusing on masterworks and the intellectual, technical, and creative processes behind those works. Studio lessons provide opportunities for drawing, painting, sculpting, and other creative endeavors.

Course Length: Two semesters

Materials: One package of white clay; one set of acrylic paint; one set of round paintbrushes. It is recommended, but not required, that students have some means of capturing an image of their studio art projects with a digital camera, webcam, or other imaging device.

Prerequisites: HST103: World History (or equivalent) is recommended as a prerequisite or co-requisite, but not required

ART020: Music Appreciation (Elective)

This course introduces students to the history, theory, and genres of music. The course explores the history of music, from the surviving examples of rudimentary musical forms through to contemporary pieces from around the world. The first semester covers early musical forms, classical music, and American jazz. The second semester presents modern traditions, including gospel, folk, soul, blues, Latin rhythms, rock and roll, and hip hop. The course explores the relationship between music and social movements and reveals how the emergent global society and the prominence of the Internet are making musical forms more accessible worldwide.

To comply with certain state standards for the arts, a student "performance practicum" is required for full credit each semester. The performance practicum requirement can be met through participation in supervised instrumental or vocal lessons, church or community choirs, community musical performances, or any other structured program that meets at regular intervals and provides opportunities for students to build vocal and/or instrumental skills. Parents or guardians will be required to present their proposed practicum to the students' teachers for approval, and validate their children's regular participation in the chosen performance practicum.





ELECTIVES

Course Length: Two semesters

Materials: Finale Notepad music notation software

Prerequisites: None

ART500-AVT: AP Art History (Elective)

This course is designed to broaden students' knowledge of architecture, sculpture, painting, and other art forms within various historical and cultural contexts. In AP Art History, students identify and classify artworks from prehistory through the 20th century, formally analyze artworks by placing them in the historical context within which they were created, consider the visual traditions of the cultures that created artworks, and understand interdisciplinary and cultural influences on works of art. In addition to visual analysis, the course considers issues such as patronage, gender, and the functions and effects of artworks. This course uses a textbook. Prior art training is not necessary for enrollment.

Course Length: Two semesters

Materials: Gardner's Art Through the Ages, 12th Edition (Fred S. Kleiner,

Christin J. Mamiya)

Prerequisites: Teacher/school counselor recommendation; prior art training is not required

BUS030: Personal Finance (Elective)

In this introductory finance course, students learn basic principles of economics and best practices for managing their own finances. Students learn core skills in creating budgets, developing long-term financial plans to meet their goals, and making responsible choices about income and expenses. They gain a deeper understanding of capitalism and other systems so they can better understand their role in the economy of society. Students are inspired by experiences of finance professionals and stories of everyday people and the choices they make to manage their money.

Course Length: One semester

Prerequisites: None

MTH332-AVT: Integrated Math (Elective)

This course helps students develop mathematical skills that enable them to solve problems and use reason and logic in math courses. Integrated Math gives the man overview of the many mathematical disciplines; topics include number sense, operations, algebraic sense, introduction to probability, geometric figures, geometric movement, measurement, and a more in-depth look at probability (including permutations and combination). Content is expressed in everyday mathematical language and notations to help students learn to apply the skills in a variety of applications. Instruction is supplemented with self-check quizzes audio tutorials, Web quests, and interactive games that engage students in the content they are learning.

Course Length: Two semesters **Prerequisites:** Algebra I

MTH342 -AVT: Accounting (Elective)

Through this course, students gain a foundation in the skills needed for college accounting courses, office work, and managing their own small businesses. This introduction to accounting gives students who have never had prior accounting training an overview of





the three forms of accounting: financial, cost, and management accounting. The course helps build an appreciation for the role of accounting in managing a profitable business. Instructional material covers the basic concepts, conventions, and rules of the double entry system and includes techniques for analyzing ratios from a balance sheet. The concept of ethics, integrity, confidentiality, and rigor are woven through all the units.

Course Length: Two semesters

Prerequisites: None

BUS040: Introduction to Entrepreneurship I (Elective)

In this introductory business course, students learn the basics of planning and launching their own successful business. Whether they want to start their own money-making business or create a non-profit to help others, this course helps students develop the core skills they need to be successful. They learn how to come up with new business ideas, attract investors, market their business, and manage expenses. Students hear inspirational stories of teen entrepreneurs who have turned their ideas into reality, and then they plan and execute their own business.

Course Length: One semester

Prerequisites: None

BUS050: Introduction to Entrepreneurship II (Elective)

Students build on the business concepts they learned in Introduction to Entrepreneurship I. They learn about sales methods, financing and credit, accounting, pricing, and government regulations. They refine their technology and communication skills in speaking, writing, networking, negotiating, and listening. They enhance their employability skills by preparing job-related documents, developing interviewing skills, and learning about hiring, firing, and managing employees. Students develop a complete business plan and a presentation for potential investors.

Course Length: One semester

Prerequisites: BUS040: Introduction to Entrepreneurship I (or equivalent)

BUS060: Introduction to Marketing I (Elective)

Students find out what it takes to market a product or service in today's fast-paced business environment. They learn the fundamentals of marketing using real-world business examples. They learn about buyer behavior, marketing research principles, demand analysis, distribution, financing, pricing, and product management.

Course Length: One semester

Prerequisites: None

BUS070: Introduction to Marketing II (Elective)

Students build on the skills and concepts learned in Introduction to Marketing I to develop a basic understanding of marketing principles and techniques. By the end of the course, they will have developed their own comprehensive marketing plan for a new business.

Course Length: One semester

Prerequisites: BUS060: Introduction to Marketing I (or equivalent)

ENG010: Journalism (Elective)

Students are introduced to the historical importance of journalism in America. They study the basic principles of print and online journalism as they examine the role of printed news media in our society. They learn investigative skills, responsible reporting, and journalistic writing techniques as they read, respond to, and write their own news and feature articles. Students conduct interviews, research, write, and design their own publications.

Course Length: One semester

Prerequisites: None

ENG020: Public Speaking (Elective)

Students are introduced to public speaking as an important component of their academic, work, and social lives. They study public speaking occasions and develop skills as fair and critical listeners, or consumers, of spoken information and persuasion. Students study types of speeches (informative, persuasive, dramatic, and special occasion), read and listen to models of speeches, and prepare and present their own speeches to diverse audiences. Students learn to choose speaking topics and adapt them for specific audiences, to research and support their ideas, and to benefit from listener feedback. They study how to incorporate well-designed visual and multimedia aids in presentations and how to maintain a credible presence in the digital world. Students also learn about the ethics of public speaking and about techniques for managing communication anxiety.

Course Length: One semester

Materials: Student must provide a webcam and recording software

Prerequisites: None

HST010-APL: Anthropology (Elective)

Anthropologists research the characteristics and origins of the cultural, social, and physical development of humans and consider why some cultures change and others come to an end. In this course, students are introduced to the five main branches of anthropology: physical, cultural, linguistic, social, and archeological. Through instruction and their own investigation and analysis, students explore these topics, considering their relationship to other social sciences such as history, geography, sociology, economics, political science, and psychology. Emulating professional anthropologists, students apply their knowledge and observational skills to the real-life study of cultures in the United States and around the world. The content in this course meets or exceeds the standards of the National Council for the Social Studies (NCSS).

Course Length: One semester

Prerequisites: HST103: World History (or equivalent) recommended as a prerequisite or

co-requisite, but not required

HST020-AVT: Psychology (Elective)

In this course, students investigate why human beings think and act the way they do. This is an introductory course that broadly covers several areas of psychology. Instructional material presents theories and current research for students to critically evaluate and understand. Each unit introduces terminology, theories, and research that are critical to the understanding of psychology and includes tutorials and interactive

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exercises. Students learn how to define and use key terms of psychology and how to apply psychological principles to their own lives. Unit topics in this one-semester course include methods of study, biological basis for behavior, learning and memory, development and individual differences, and psychological disorders.

Course Length: One semester

Prerequisites: None

HST030-AVT: Economics (Elective)

Students are introduced to the basics of economic principles, and learn how to think like economists. They explore different economic systems, including the American free enterprise system, analyze and interpret data, and consider economic applications in today's world. From economics in the world of business, money, banking, and finance, students see how economics is applied both domestically and globally. Students take diagnostic tests that assess their current knowledge and generate individualized study plans, so students can focus on topics that need review. Audio readings and vocabulary lists in English and Spanish support reading comprehension.

Course Length: One semester

Prerequisites: None

HST040-AVT: Civics (Elective)

Civics is the study of citizenship and government. This one-semester course provides students with a basic understanding of civic life, politics, and government, and a short history of government's foundation and development in this country. Students learn how power and responsibility are shared and limited by government, the impact American politics has on world affairs, the place of law in the American constitutional system, and which rights the American government guarantees its citizens. Students also examine how the world is organized politically and how civic participation in the American political system compares to that in other societies around the world today.

Course Length: One semester

Prerequisites: None

HST050-AVT: Sociology (Elective)

Through this two-semester course, students explore human relationships in society. Instructional materials emphasize culture, social structure, the individual in society, institutions, and social inequality. Unit topics for the first semester include society and culture, what is sociology, the nature of culture, conformity and deviance, social structure, roles, relationships and groups, and social stratification. In the second semester, students learn about social institutions, the family, religion and education, government and economic systems, the individual in society, the early years, adolescence, the adult years, continuity and change, communities and change, social movements and collective behavior, social problems, minorities and discrimination, poverty, crime, and problems of mass society. Students use a textbook for the course.

Course Length: Two semesters

Materials: Sociology: Study of Human Relationships, 6th edition by W. LaVerne Thomas;

other editions acceptable **Prerequisites:** None

HST222-AVT: Contemporary World Issues (Elective)

Students analyze governments, economies, peoples, and cultures from around the world in this course. Instruction emphasizes the structures and policies of the United States and how they compare to other systems in the international community. Students apply critical thinking and research skills to examine current events and contemporary issues, including human rights, the strengths and weaknesses of globalization, America's role in the international economy, the severe environmental threats facing many regions around the world today, how religion is often used to facilitate and justify violence, and America's "War on Terror" and its impact on the Middle East and Islamic culture.

Course Length: Two semesters

Prerequisites: None

PRJ010: Service Learning (Elective)

This project may be used in a variety of ways—as a stand-alone project, in conjunction with another course, or as a foundation around which to base a one-semester course. An introductory unit presents instruction on the nature of service learning. Students are taught how to identify community needs, select projects that are meaningful to themselves, apply practical skills, reflect on their learning experience, and behave responsibly in a service setting. Students then move on to design and conduct service learning experiences of their own, according to the requirements of their projects. Documents to support teachers in guiding students through the project are included.

Project Length: Varies **Prerequisites:** None

SCI010: Environmental Science (Elective)

This course surveys key topic areas including the application of scientific process to environmental analysis; ecology; energy flow; ecological structures; earth systems; and atmospheric, land, and water science. Topics also include the management of natural resources and analysis of private and governmental decisions involving the environment. Students explore actual case studies and conduct five hands-on, unit-long research activities, learning that political and private decisions about the environment and the use of resources require accurate application of scientific processes, including proper data collection and responsible conclusions.

Course Length: One semester

Prerequisites: Success in previous high school science course and teacher/school

counselor recommendation

OTH010: Skills for Health (Elective)

This course focuses on important skills and knowledge in nutrition; physical activity; the dangers of substance use and abuse; injury prevention and safety; growth and development; and personal health, environmental conservation, and community health resources. The curriculum is designed around topics and situations that engage student discussion and motivate students to analyze internal and external influences on their health-related decisions. The course helps students build the skills they need to protect, enhance, and promote their own health and the health of others.

Course Length: One semester

Prerequisites: None



OTH016-AVT: Health (Credit Recovery)

This one-semester credit recovery course provides students with information that will help them live a more healthy and productive life. The emphasis is on making healthy personal decisions and in getting the information needed to make those choices. The course addresses both mental and physical health. Students learn about nutrition, including food guidelines and types of food; eating disorders are also covered. Students learn about first aid and CPR, substance abuse, and human sexuality. The course also covers consumer health resources, including government resources, nonprofit resources, and health insurance. Students learn how technology is influencing health care, and they examine the benefits of frequent physical exercise.

Course Length: One semester

Prerequisites: Student previously took the course or its equivalent, but did not receive credit, and teacher/school counselor recommendation

OTH080-AVT: Nutrition and Wellness (Elective)

This one-semester elective course provides students with an overview of good nutrition principles that are necessary for physical and mental wellness and a long, healthy life. Instructional materials include discussions of digestion, basic nutrients, weight management, sports and fitness, and life-span nutrition. The Nutrition and Wellness course emphasizes an understanding of today's food and eating trends and gives students the capacity to intelligently evaluate all available sources of nutrition information and make informed decisions. Unit topics include a course introduction, wellness and food choices in today's world, digestion and major nutrients, and body size and weight management.

Course Length: One semester

Prerequisites: None

OTH020: Physical Education (Elective)

This pass/fail course combines online instructional guidance with student participation in weekly cardiovascular, aerobic, muscle-toning, and other activities. Students fulfill course requirements by keeping weekly logs of their physical activity. The course promotes the value of lifetime physical activity and includes instruction in injury prevention, nutrition and diet, and stress management. Students may enroll in the course for either one or two semesters, and repeat for further semesters as needed to fulfill state requirements.

Course Length: One semester (or more)

Prerequisites: None

OTH026-AVT: Physical Education (Credit Recovery)

Through this one-semester credit recovery course, students learn a wide variety of fitness concepts that they will be able to use in their everyday life. The course addresses the fundamentals of physical fitness, including goal setting and target heart rate. Students learn about how their body works by studying static and dynamic balance, linear and rotary motion, anatomy, and biomechanics. They are introduced to a variety of lifetime activities, including tennis, golf, Frisbee, and orienteering. They also learn about activities to promote cardiorespiratory fitness, including kickboxing, hip hop dance, fitness walking, and cycling. Pilates, yoga, and breathing exercises that help promote physical and emotional wellness are addressed as well.

Course Length: One semester

Prerequisites: Student previously took the course or its equivalent, but did not receive

credit, and teacher/school counselor recommendation

OTH070-AVT: Drivers Safety (Elective)

Drivers Safety can provide a foundation for a lifetime of responsible driving. Instructional material in this course emphasizes the mechanics of driving operations and the rules of safe driving. Among other topics, students learn how to assess and manage risk, handle social pressures, understand signs and signals, comprehend the rules of the road, and start, steer, stop, turn, and park a car. They also learn how to contend with driving environments including light and weather conditions, share the roadway, respond to an emergency, buy and maintain a car, plan a trip, take a state driving test, and partner with their parents or guardians to promote safety on the road. Students use a textbook for this one-semester course. This course may not satisfy the state department of transportation's or motor vehicle's requirements for learners permit issuance. Please consult local requirements prior to enrolling.

Course Length: One semester

Materials: Responsible Driving, Street Smarts DVD

Prerequisites: None

OTH090-AVT: Life Skills (Elective)

This one-semester elective is designed to increase students' knowledge of and ability in using the skills necessary for everyday living. Life Skills emphasizes defining personal values, goal-setting and planning, and solving problems. Instructional material focuses on dealing with media and peer pressure, communication and relationships, working with others, avoiding and/or resolving conflict, decision making, wellness and personal safety, aspects of good citizenship, environmental awareness, and how students can contribute to their own community. The course is organized in six units, which cover the following topics: course introduction, thinking about yourself, thinking for yourself, taking care of yourself, caring for your relationships, and caring about your world.

Course Length: One semester

Prerequisites: None

OTH040: Reaching Your Academic Potential (Elective)

Students learn essential academic skills within the context of their learning style, individual learning environment, and long-term goals. This course helps students develop habits for more successful reading, writing, studying, communication, collaboration, time management, and concentration. It also provides insights into how the brain works when they are learning, and ways to maximize its potential.

Course Length: One semester

Prerequisites: None

OTH050: Achieving Your Career and College Goals (Elective)

Students explore their options for life after high school and implement plans to achieve their goals. They identify their aptitudes, skills, and preferences, and explore a wide range of potential careers. They investigate the training and education required for the career of their choice, and create a plan to be sure that their work in high school is preparing

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them for the next step. They also receive practical experience in essential skills such as searching and applying for college, securing financial aid, writing a resume and cover letter, and interviewing for a job. This course is geared toward 11th and 12th graders.

Course Length: One semester

Prerequisites: None

OTH060-AVT: Family and Consumer Science (Elective)

In this course, students develop skills and knowledge to help them transition into adult roles within the family. They learn to make wise consumer choices, prepare nutritious meals, contribute effectively as part of a team, manage a household budget, and balance roles of work and family. They gain an appreciation for the responsibilities of family members throughout the life-span and the contributions to the well-being of the family and the community.

Course Length: One semester

Prerequisites: None

TCH010: Computer Literacy (Elective)

Today's students must be able to effectively use technology to research, organize, create, and evaluate information. This course provides a foundation in the skills and concepts that define computer literacy in the twenty-first century. From the basics of keyboarding to Internet research techniques, document creation, and digital citizenship, students practice essential skills through hands-on projects.

Course Length: One semester

Software: OpenOffice.org (free download provided in course); Mozilla Firefox **System Requirements:** Microsoft Windows XP, Windows Vista, Windows 7, or Mac OS X 10.4 or higher operating system; for Windows, 256 MB of memory (RAM), 650 MB available hard drive space, and a 1024×768 or higher monitor resolution; for Mac OS X, an Intel processor, 512 MB of memory (RAM), 400 MB available disk space, and a 1024×768 or higher monitor resolution

Prerequisites: None

TCH030: Image Design and Editing (Elective)

This is the perfect course for anyone who wants to create compelling, professional looking graphic designs and photos. Students learn the basics of composition, color, and layout before moving on to technical topics like working with layers and masks, adding special effects, and effectively using typefaces to create visual impact. At the end of this course, students will have a variety of original projects for their graphic design portfolio.

Course Length: One semester **Software:** GIMP (free download)

System Requirements: Microsoft Windows XP, Windows Vista, or Mac OS X operating system; 400 MHz or faster processor; 512 MB of memory (RAM); at least 2 GB of

available hard drive space **Prerequisites:** None

TECHNOLOGY & COMPUTER SCIENCE

TCH040: Web Design (Elective)

This course provides a comprehensive introduction to the essentials of Web design, from planning page layouts to publishing a complete site to the Web. Through real world design scenarios and hands-on projects, students create compelling, usable websites using the latest suite of free tools from Microsoft.

Course Length: One semester

Software: KompoZer (free download) and GIMP (free download)

System Requirements: Microsoft Windows XP, Windows Vista, or Mac OS X operating system; 400 MHz or faster processor (must have a PowerPC processor, not Intel, for Mac OS X); 512 MB of memory (RAM); at least 2 GB of available hard drive space

Prerequisites: None

TCH060: C++ Programming (Elective)

In this introductory course, students learn basic programming concepts through a series of hands-on projects. They also learn about software development careers, the software development process, and industry best practices. Using Microsoft Visual C++2008, students master the building blocks of programming: functions, variables, loops, arrays, and classes

Course Length: One semester

Software: Microsoft Visual C++ 2008 Express (free download provided in course) **System Requirements:** Microsoft Windows XP Service Pack 2 or Service Pack 3; Windows Vista or Windows Vista SP1, or Windows 7 operating system; 1 GHz or faster processor (1.6 GHz for Vista or Windows 7); 192 MB of memory (RAM) (748 MB for Vista

or Windows 7); at least 1 GB of available hard drive space

Prerequisites: None

TCH061-AVT: Programming I—VB.NET (Elective)

Students learn basic programming and the essential concepts of VisualBasic.net (VB. NET) in this one-semester course. As an introduction to VB.NET, students are taught the basic uses of the programming language, its similarities to the English language and others, its architecture, program flow, and its flexibility as a programming language. The course helps participants understand the processes involved in software development and object-oriented programming. This is an introductory course that could lead to careers such as software engineer, developer, or game designer. Prior coursework in computer fundamentals is a prerequisite. Visual Studio 2008 Express Edition is required software for this course.

Course Length: One semester

Prerequisites: Knowledge of computer fundamentals

TCH062-AVT: Programming II—Java (Elective)

This introductory-level, one-semester course is designed for people who have very little programming experience. In Java Programming, students gain an understanding of Java platforms and learn how to build a stand-alone application, such as a countdown clock or leap year indicator. Students also learn the techniques of Java and how Java can be used in cross-platform programming. At the end of the course, students are able to write basic programs using Java and are prepared to pursue further instruction in any programming language. Prior coursework in computer fundamentals and programming

are prerequisites for Java Programming. JDK 1.5 or a higher version Java application is required for this course

Course Length: One semester

Prerequisites: Basic computer fundamentals; VB.NET Programming I or a solid

understanding of version control and general software development

TCH070: Game Design (Elective)

This course is for anyone who loves gaming and wants to design and build original games from scratch. Students learn how to use popular game-development software to create engaging, interactive games in a variety of styles. After learning about game genres, students learn about all aspects of the game-design process. From there, it's on to a series of increasingly challenging hands-on projects that teach all the elements of successful game development.

Course Length: One semester

Software: Multimedia Fusion 2 (Standard)

System Requirements: Microsoft Windows XP or Windows Vista operating system; 1 GHz or faster processor; 256 MB of memory (RAM); at least 2 GB of available hard drive space

Prerequisites: None

TCH026: Audio Engineering (Elective)

In this introductory course, students learn about the physics of sound and the history of recording technologies. They learn about the four stages of professional music recording projects: recording, editing, mixing, and mastering. Using Audacity, an open-source recording and mixing program, they practice the techniques used by sound engineers to produce multi-track recordings. Through a series of engaging hands-on projects, they learn the fundamental concepts of audio engineering.

Course Length: One semester

Software: Audacity (free download provided in course)

System Requirements: Microsoft Windows XP, Windows Vista, Windows 7, or Mac OS X 10.4 or higher operating system; for Windows XP and Vista Home Basic, a 1 GHz or faster processor; for Windows Vista Home Premium/Business/Ultimate and Windows 7, a 2 GHz or faster processor; for Mac OS X, a 300 MHz or faster processor; for XP, 512 MB of memory (RAM); for Vista Home Basic, 2 GB; for Vista Home Premium/Business/Ultimate and for Windows 7, 4 GB; for Mac OS X, 64 MB; at least 4 GB of available hard drive space

Prerequisites: None

TCH027: Green Design and Technology (Elective)

This course examines the impact of human activities on sustainability while exploring the basic principles and technologies that support sustainable design. Students learn about the potential for emerging energy technologies such as water, wind, and solar power. They find out how today's businesses are adapting to the increased demand for sustainable products and services. In this course, students develop a comprehensive understanding of this fast-growing field.

Course Length: One semester

Prerequisites: None





TCH028: Digital Arts I (Elective)

In this exploratory course, students learn the elements and principles of design, as well as foundational concepts of visual communication. While surveying a variety of media and art, students use image editing, animation, and digital drawing to put into practice the art principles they've learned. They explore career opportunities in the design, production, display, and presentation of digital artwork. They respond to the artwork of others, and learn how to combine artistic elements to create finished pieces that effectively communicate their ideas.

Course Length: One semester

Software: Inkscape (free download provided in course)

System Requirements: Microsoft Windows XP, Windows Vista, or Mac OS X 10.3 or higher operating system, 1 GHz or faster processor; at least 512 MB of memory (RAM);

at least 1 GB of available hard drive space

Prerequisites: None

TCH029: Digital Arts II (Elective)

Students build on the skills and concepts they learned in Digital Arts I as they develop their vocabulary of digital design elements. By the end of the course, they will have created a collection of digital art projects for their digital design portfolio.

Course Length: One semester

Software: Inkscape (free download provided in course)

System Requirements: Microsoft Windows XP, Windows Vista, or Mac OS X 10.3 or higher operating system, 1 GHz or faster processor; at least 512 MB of memory (RAM);

at least 1 GB of available hard drive space

Prerequisites: TCH028: Digital Arts I (or equivalent)

TCH036: Computer Science (Elective)

This course introduces students to computer science concepts such as computer architecture, networks, and the Internet. Students use object-oriented programming, event-driven processes, modular computer programming, and data manipulation algorithms to produce finished software programs. They use the design process to create many programs by determining specifications, designing the software, and testing and improving the product until it meets the specifications. By the end of this course, students will have a solid foundation for further study in this subject.

Course Length: One semester

Software: Free download provided in course

System Requirements: Microsoft Windows or Mac OS X operating systems Windows XP, Windows Vista, or Windows 7 recommended; at least 100 MB of available hard drive space

Prerequisites: None

TCH038: Engineering Design /CAD (Elective)

Computer-aided design systems are used by designers and manufacturers in virtually every industry to create engineering design solutions. In this course, students are introduced to engineering, learning the basics of CAD software: creating points, lines, other geometric forms, isometric drawings, and 3D models. They learn how to translate initial concepts into functional designs and 3D walkthroughs and explore career options in this hands-on introductory-level course.

TECHNOLOGY & COMPUTER SCIENCE



Course Length: One semester

Software: Free download provided in course

System Requirements: Microsoft Windows XP or Windows Vista operating system; 600 MHz or faster processor (1 GHz for Vista); 512 MB of memory (RAM) (1 GB for Vista); at least 2 GB of available hard drive space; 3D class video card with 128 MB of memory or higher (256 MB for Vista)—the video card driver must support OpenGL version 1.5 or higher

Prerequisites: None

TCH500-AVT: AP Computer Science A (Elective)

AP Computer Science A is the equivalent of a first-semester, college-level course in computer science. The course emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development. It also includes the study of data structures, design, and abstraction. Students enrolling in AP Computer Science A should have knowledge of mathematics at the Algebra II level as well as some previous programming experience, a basic understanding of networks, and knowledge of the responsible use of computer systems (including system reliability, privacy, legal issues, intellectual property, and the social and ethical ramifications of computer use). To take this course, students need regular access to a computer system with recent technology.

Course Length: Two semesters

Materials: Java; at least 128 MB of memory

Prerequisites: Success in MTH304: Honors Algebra II (or equivalent); previous programming experience, such as an introductory course in C++, Pascal, Visual Basic, or Java; basic understanding of networks; and teacher/school counselor recommendation

ORN010: Online Learning

The Online Learning course explains to students how the K^{12} high school program works, and provides tips on successful online learning. Students are introduced to the online tools they will use during their high school experience, including the Learning Management System that delivers course assignments. Students take part in online discussions and practice submitting computer-scored assessments and other assignments to teachers. Lifelong learning skills such as time management and study habits are also covered. By the end of the course, students will be fully prepared to begin their K^{12} high school courses.

Course Length: 6–8 hours **Prerequisites:** None

ORN100: Finding Your Path I ORN200: Finding Your Path II ORN300: Finding Your Path III ORN400: Finding Your Path IV

Students begin each school year with a course specifically targeted to the unique concerns of freshmen, sophomores, juniors, and seniors. This 10-hour orientation course is unique for each student, as school counselors, advisors, and other staff guide students through an in-depth exploration of their interests, abilities, and skills. Students explore their education and career interests, define goals, and create a path through high school that will get them there. In addition, this course serves as a "home base" where students and school counselors can address topics that are critical to ensuring success in high school and beyond.

Course Length: 10 hours **Prerequisites:** None



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High School Course List	Jan	the the time							
ENGLISH		(9	AND HOLES		•	Q.			
English Foundations I					•				
English Foundations II					•				
Literary Analysis and Composition I	•	•	•			•			
Literary Analysis and Composition II	•	•	•			•			
American Literature 🖨	•	•	•			•			
British and World Literature 📵	•	*	*			•			
AP English Language and Composition				*					
AP English Literature and Composition				*					
Journalism*							•		
Public Speaking*							*		
Creative Writing							*		
MATH									
Math Foundations I					•				
Math Foundations II					•				
Consumer Math	•								
Practical Math (1)	•								
Developmental Algebra (1)	•								
Pre-Algebra (1)	•	•				•			
Algebra I (1)	•	*	<u> </u>			•			
Geometry () Algebra II ()	•	*	<u> </u>			•			
Pre-Calculus/Trigonometry	•	*	<u> </u>			•			
Probability and Statistics* (2)		*							
Calculus		*							
AP Calculus AB		•		•					
AP Calculus BC (1) (2)									
AP Statistics				+					
Personal Finance*							•		
Integrated Math							•		
SCIENCE									
Physical Science (1) (2)	•					•			
Earth Science (1) (1)	•	*	•			•			
Biology (1) (3)	•	*	*			•			
Chemistry (1) (1)	•	•	•			•			
Physics (1) (1)		*	*						
AP Biology				*					
AP Chemistry 🚺				*					
AP Physics B				*					
AP Environmental Science				•					
Environmental Science*							♦		
Forensic Science* ()		*					•		
HISTORY & SOCIAL SCIENCES									
World History (1)	•	*	•			•			
Modern World Studies (1)	•	*	*			•			
Geography and World Cultures*	•	•				•			
U.S. History (•	•	<u> </u>			•			
Modern U.S. History () U.S. Government and Politics*	•	*	•			•			
U.S. and Global Economics*	•	•				•			
AP U.S. History		•		•					
AP U.S. Government and Politics*				*					
AP 0.5. Government and Politics AP Macroeconomics*				*					
AP Microeconomics*				*					
AP Psychology*				*					
AP European History (3				•					
AP World History				•					
Anthropology*				_			•		
Psychology*							•		
Economics*						•	•		
Civics*							•		
Family and Consumer Science*							•		
Contemporary World Issues							*		
Sociology							•		

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WORLD LANGUAGES							
Spanish I	•				•		
Spanish II (1)	•						
Spanish III (1)	•						
Spanish IV	•						
AP Spanish Language and Culture (1)			•				
French I (1)	_						
French II (1)	<u> </u>						
French III (I)	*						
French III (1)	*						
French IV	•						
AP French Language and Culture (1)			•				
German I (1)	•						
German II	•						
German III	•						
German IV	•						
Latin I (1)	•						
Latin II (1)							
Chinese I (1)	*						
Chinese II (1)	*						
Japanese I							
	•						
Japanese II	•						
ADDITIONAL ELECTIVES							
Fine Art						•	
Music Appreciation						•	
AP Art History			•				
Introduction to Entrepreneurship I*						•	
Introduction to Entrepreneurship II*						•	
Introduction to Marketing I*						•	
Introduction to Marketing II*						•	
Accounting						•	
Service Learning*							
Skills for Health*					•		
Nutrition and Wellness*						<u> </u>	
Life Skills*					_		
Physical Education*					•	•	
Reaching Your Academic Potential*						•	
Achieving Your Career and College Goals*						•	
Drivers Safety*						•	
TECHNOLOGY & COMPUTER SCIENCE							
Computer Literacy*						•	
Image Design and Editing*						•	
Web Design*						•	
C++ Programming*						•	
Programming I - VB.NET*						•	
Programming II - Java*							
Game Design*							
						•	
Audio Engineering*						•	
Green Design and Technology*						•	
Digital Arts I*						•	
Digital Arts II*						•	
Computer Science *						•	
Engineering Design / CAD*						•	
AP Computer Science(1)			*				
ORIENTATION							
Online Learning							
Finding Your Path Series I–IV							
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(1) = new course (2) = eBook(s) included	e available	e * = one-semester course					
(1) = includes vLabs (virtual labs) (1) = NCAA approved as part of ◆ = NCAA eligible All courses, unless oth							
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Complete list available through K^{12} . Course offerings may vary at K^{12} -powered schools. K^{12} is approved by the University of California as a provider of "a-g" courses. Nearly 30 of our individual courses have already received approvals and more are now in the approval process. See K12.com/courses for the list.

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