



**WIVA COURSE CATALOG**  
**GRADES 9–12**  
**2016–2017 SCHOOL YEAR**

Course ID	WIVA Course List (SY16-17)	Core	Comp	Honors	AP Designates college level course (weighted)	Elective	<p><i>Disclaimer: WIVA course offerings are subject to student interest and staffing. WIVA will make every effort to meet individual student course requests but some courses may not be available.</i></p> <p><b>** Availability is based on enrollment and ability to staff course.</b></p> <p>(N) = new course (O) = online book(s) included ◆ = NCAA eligible All courses, unless otherwise noted, are two SEMs. V= Virtual Lab (no materials) * one-SEM course</p>
<b>ENGLISH</b>							
ENG001	<a href="#">English Foundations I</a>	•					Remedial/ Teacher Recommendation Only
ENG011	<a href="#">English Foundations II</a>	•					Remedial/ Teacher Recommendation Only
ENG108	<a href="#">English 9 (N)</a>		◆				9th grade (NEW Next Generation)
ENG208	<a href="#">English 10 (N)</a>		◆				10 <sup>th</sup> Grade (NEW Next Generation)
ENG302/303/304	<a href="#">American Literature (O)</a>	•	◆	◆			Honors Available (11 <sup>th</sup> grade)
ENG402/403	<a href="#">British and World Literature (O)</a>	•	◆				No Honors (12 <sup>th</sup> grade)
ENG500	<a href="#">AP English Language and Composition</a>				◆		"B" or higher grade in English coursework
OTH036	<a href="#">Gothic Literature</a> * SEM 2		•			•	Comprehensive Level Course
ENG030	<a href="#">Creative Writing</a> * SEM 1		•			•	Comprehensive Level Course
<b>SOCIAL SCIENCES</b>							
HST102/103	<a href="#">World History (O)</a>	•	◆	◆			9 <sup>th</sup> Grade
HST202/203	<a href="#">Modern World Studies (O)</a>	•	◆	◆			11 <sup>th</sup> Grade
HST302/304	<a href="#">U.S. History (O)</a>	•	◆	◆			10 <sup>th</sup> Grade/ Core and Honors
HST500	<a href="#">AP U.S. History</a>				◆		K12 Instructed/Independent
HST510	<a href="#">AP U.S. Government and Politics</a> *				◆		K12 Instructed/Independent
HST520	<a href="#">AP Macroeconomics</a> *				◆		K12 Instructed/Independent
HST530	<a href="#">AP Microeconomics</a> *				◆		K12 Instructed/Independent
HST540	<a href="#">AP Psychology</a> * SEM 2				◆		College Level
HST560	<a href="#">AP World History</a>				◆		K12 Instructed/ Independent
HST050	<a href="#">Sociology</a>	•				•	SS Elective Option
HST020	<a href="#">Psychology</a> * SEM 1 or SEM 2					◆	SS Elective Option
OTH091	<a href="#">Law and Order SEM 1 &amp; 2</a>	•				•	SS Elective Option

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HST030	<a href="#">Economics*</a> SEM 2	•				•	SS Elective Option
<b>MATHMATICS</b>							
MTH001	<a href="#">Math Foundations I</a>	•					Remediation
MTH112	<a href="#">Pre-Algebra (O)</a>	•					
MTH107	<a href="#">Developmental Algebra (O)</a>	•					Year-1 Algebra
MTH207	<a href="#">Continuing Algebra I</a>	•					Year -2 Algebra
MTH128	<a href="#">NG Algebra I (O) (N)</a>		◆				
MTH208	<a href="#">NG Geometry (O) (N)</a>		◆				<b>Fundamental Section Available</b>
MTH 307	<a href="#">Practical Math (O)</a>	•					Successful completion of Algebra I required
MTH308	<a href="#">NG Algebra II (O) (N)</a>		◆				Minimum for a 4 year college
MTH403	<a href="#">Pre-Calculus/Trigonometry</a>		◆				Comprehensive Only
MTH500	<a href="#">AP Calculus AB</a>				◆		College Level Course
MTH520	<a href="#">AP Calculus BC (O)</a>				◆		K12 Instructed Course/Independent
MTH510	<a href="#">AP Statistics</a>				◆		K12 Instructed Course/Independent
MTH322	<a href="#">Consumer Math</a>	•				•	
<b>SCIENCE</b>							
SCI102	<a href="#">Physical Science (V) (O)</a>	◆					Core level only- 9 <sup>th</sup> grade
SCI112	<a href="#">Earth Science (V) (O)</a>	•	◆				Only Core – 11 <sup>th</sup> grade
SCI202/203	<a href="#">Biology (V) (O)</a>	•	◆				<b>REQUIRED for graduation.</b> 10 <sup>th</sup> grade.
SCI302/303	<a href="#">Chemistry (V) (O)</a>	•	◆				CORE: technical school bound students COMP: Recommended for 4 year college students
SCI403/404	<a href="#">Physics (V) (O)</a>		◆	◆			Comprehensive and Honors Available
SCI530	<a href="#">AP Environmental Science</a>				•		Biology prerequisite/ IST Instructed/ Independent
SCI500	<a href="#">AP Biology</a>				◆		Biology prerequisite/ IST Instructed
SCI510	<a href="#">AP Chemistry</a>				◆		Biology, Chemistry prerequisite/ IST Instructed
TCH027	<a href="#">Green Design and Technology (Sem 1)</a>	•				•	Grade 11 & 12/ SCI or Elective
SCI321-CEN	<a href="#">Anatomy and Physiology I (Sem 1) (N)</a>		•			•	Grade 11 & 12/ SCI or Elective
SCI322-CEN	<a href="#">Anatomy and Physiology II (Sem 2) (N)</a>		•			•	Grade 11 & 12/ SCI or Elective
OTH033	<a href="#">Veterinary Science*</a> (N) SEM 2	•				•	Grade 11 & 12/ SCI or Elective
<b>WORLD LANGUAGES</b>							
WLG100	<a href="#">Spanish I</a>		◆				
WLG200A	<a href="#">Spanish II A</a>		◆				Spanish II First Year

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WLG200B	<a href="#">Spanish II B</a>		◆				Spanish II Second Year
WLG300	<a href="#">Spanish III</a>		◆				
WLG400	<a href="#">Spanish IV**</a>		•				Middlebury Instructed
WLG500	<a href="#">AP Spanish Language**</a>				◆		Middlebury Instructed
WLG110	<a href="#">French I</a>		◆				
WLG210	<a href="#">French II</a>		◆				
WLG310	<a href="#">French III</a>		◆				Middlebury Instructed
WLG410	<a href="#">French IV**</a>		•				Middlebury Instructed
WLG510	<a href="#">AP French Language**</a>				◆		Middlebury Instructed
WLG120	<a href="#">German I</a>		◆				
WLG220	<a href="#">German II</a>		◆				
WLG320	<a href="#">German III</a>		◆				Middlebury Instructed
WLG420	<a href="#">German IV**</a>		•				Middlebury Instructed
<b>Electives</b>							
BUS030	<a href="#">Personal Finance* SEM 1</a>	•				•	Elective Option
HST030	<a href="#">Economics* SEM 2</a>					•	SS/Elective Option
TCH020V2	<a href="#">Computer Fundamentals</a>					•	Yearlong course.

*General Electives begin on following page:*

<b>ELECTIVES</b>							
BUS040	<a href="#">Introduction to Entrepreneurship I</a>		•			•	11 <sup>th</sup> & 12 <sup>th</sup> Grade
BUS041	<a href="#">Introduction to Entrepreneurship II</a>		•			•	11 <sup>th</sup> & 12 <sup>th</sup> Grade
ENG030	<a href="#">Creative Writing* SEM 1</a>		•			•	English/ Elective Option
HST020	<a href="#">Psychology* SEM 1 or SEM 2</a>					◆	SS/ Elective Option
HST050	<a href="#">Sociology</a>	•				•	SS /Elective Option
BUS111	<a href="#">Accounting</a>	•				•	Elective Option
MTH322	<a href="#">Consumer Math</a>	•				•	Math/Elective Option
OTH091	<a href="#">Law and Order* SEM 1 or 2</a>	•				•	SS /Elective Option
OTH060	<a href="#">Family and Consumer Science* SEM 2</a>					•	Elective Option
OTH035	<a href="#">Early Childhood Education* SEM 1</a>						

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OTH010	<a href="#">Skills for Health</a> * SEM 2					•	Required for graduation
OTH020	<a href="#">Physical Education</a> *SEM 1					•	Required for graduation
OTH070	<a href="#">Driver's Safety</a> * SEM 2 (Limited to 25)					•	Does not include behind the wheel. State Certified. Taken through CESA 2
OTH036	<a href="#">Gothic Literature</a> * SEM 2		•			◆	English/ Elective Option
SCI321-CEN	<a href="#">Anatomy and Physiology I</a> * (N) SEM 1		•				11 <sup>th</sup> & 12 <sup>th</sup> Science/ Elective Option
SCI322-CEN	<a href="#">Anatomy and Physiology II</a> *(N) SEM 1		•				11 <sup>th</sup> & 12 <sup>th</sup> Science/ Elective Option
TCH027	<a href="#">Green Design and Technology</a> * SEM 1	•					11 <sup>th</sup> & 12 <sup>th</sup> Science/ Elective Option
OTH033	<a href="#">Veterinary Science</a> * (N) SEM 2	•					11 <sup>th</sup> & 12 <sup>th</sup> Science/ Elective Option
BUS030	<a href="#">Personal Finance</a> * SEM 1	•				•	Elective Option
HST030	<a href="#">Economics</a> * SEM 2					•	SS/Elective Option
OTH080	<a href="#">Nutrition &amp; Wellness</a> * SEM 2					•	Elective Option
OTH093	<a href="#">Intro to Culinary Arts</a> * SEM 1					•	Elective Option
<b>TECHNOLOGY ELECTIVES</b>							
TCH020V2	<a href="#">Computer Fundamentals</a>	*				*	Year-long Course, Elective Option
TCH040	<a href="#">Web Design</a> * SEM 1	*				*	
TCH070	<a href="#">Game Design with Multifusion</a> * SEM 2	•				•	
<b>ORIENTATION</b>							
ORN010	<a href="#">Online Learning</a>						Tutorial
ORN100/200 300/400	<a href="#">Finding Your Path Series I-IV</a>						Tutorial

# High School Courses (9–12)

## ENGLISH

### ENG001-APL: English Foundations I (Remedial)

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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

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### ENG011-APL: English Foundations II (Remedial)

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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

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### ENG108: NG English 9 (Next Generation)

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**Recommended Grade Level:** 9

**Course Description:** K12's English 9 course is an integrated course designed to align to state standards while engaging and motivating students. The course includes instruction about reading, writing, speaking and listening, and language with a focus on exploring a wide variety of genres and their elements. Students learn how to carefully read, interpret, and analyze literature and nonfiction works of cultural or historical significance appropriate to Grade 9. Throughout the course, students practice narrative, informative, and argument writing. Students also will develop and deliver presentations and participate in discussions with their peers. The English 9 course includes an online, searchable database of skills-based content that can be used for reference or to review of all the concepts taught in the course.

**Course Length:** Two Semesters

**Materials:** Anthology (name TBD), The Way to Rainy Mountain, The Alchemist, A Midsummer Night's Dream

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### ENG208 NG English 10 (Next Generation)

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**Recommended Grade Level:** 10

**Course Description:** K12's English 10 course is an integrated course designed to align to state standards while engaging and motivating students. English 10 continues the study of reading, writing, speaking and listening, and language begun in English 9. Students continue to interpret and analyze increasingly complex works of literature and nonfiction appropriate for Grade 10. Throughout the course, students build upon and use writing skills to develop increasingly sophisticated narrative, informative, and argument writing. Students also will develop and deliver presentations and participate in discussions with their peers. The English 10 course includes an online, searchable database of skills-based content that can be used for reference or to review of all the concepts taught in the course

**Course Length:** Two Semesters

**Materials:** Anthology (name TBD), Cry, the Beloved Country, Night, Macbeth

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### ENG302: American Literature (Core)

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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

**Prerequisites:** English 9 and English 10 (or equivalent)

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### **ENG303: American Literature (Comprehensive)**

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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

**Prerequisites:** English 9 and English 10 (or equivalent)

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### **ENG304: Honors American Literature**

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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

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

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### **ENG402: British and World Literature (Core)**

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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

**Prerequisites:** ENG302: American Literature (or equivalent)

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### **ENG403: British and World Literature (Comprehensive)**

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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

**Prerequisites:** ENG303: American Literature (or equivalent)

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### **ENG500: AP English Language and Composition (ADVANCED PLACEMENT)**

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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

**Materials:** *The Norton Reader: An Anthology of Nonfiction*, 13th ed.; *Writing: A College Handbook*, 5th ed.

**Prerequisites:** ENG304: Honors American Literature (or equivalent), and teacher/school counselor recommendation

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### **ENG030-AVT: Creative Writing (Elective)**

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In this course, students explore a range of creative writing genres, including fiction, poetry, creative nonfiction, drama, and multimedia writing. They study examples of classic and contemporary selections, apply what they learn to their own writing, and develop proficiency in the writing process. They learn to evaluate the writings of others and apply evaluation criteria to their own work. By the end of the course, students will have created a well-developed portfolio of finished written works.

**Course Length:** One Semester

**Prerequisites:** None

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### **OTH036: Gothic Literature (Elective)**

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Since the eighteenth century, Gothic tales have influenced fiction writers and fascinated readers. This course focuses on the major themes found in Gothic literature and demonstrates how the core writing drivers produce a suspenseful environment for readers. It presents some of the recurring themes and elements found in the genre, including horror, romance, and mystery with remote locations, extreme weather, dramatic situations, and heroines in distress. As they complete the course, students gain an understanding of and an appreciation for the complex nature of Gothic literature.

**Course Length:** One Semester

**Materials:** None

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## **MATHEMATICS**

### **MTH001-APL: Math Foundations I (Remedial)**

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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

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### **MTH322-AVT: Consumer Math (Core)**

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Students can apply this comprehensive review and study of arithmetic skills to both personal and vocational business opportunities. Topics include whole numbers, fractions, percentages, basic statistics, and graphs. Students are shown practical applications for what they have learned in their personal lives, including home and car ownership, wages and taxes, budgeting, banking, and credit.

**Course Length:** Two Semesters

**Prerequisites:** None

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### **MTH112: Pre-Algebra**

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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

**Prerequisites:** None

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### **MTH107: Developmental Algebra**

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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

**Prerequisites:** Pre-Algebra (or equivalent)

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### **MTH207: Continuing Algebra**

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This is the second course in a two-year algebra sequence. In this course, students build on what they learned in MTH107: Developmental Algebra to complete their knowledge of all topics associated with a deep understanding of Algebra I. They learn about relations and

functions, radicals and radical expressions, polynomials and their graphs, factoring expressions and using factoring to solve equations, solving quadratics, rational expressions, and logic and reasoning.

**Course Length:** Two Semesters

**Materials:** Algebra I: Reference Guide and Problem Sets

**Prerequisites:** MTH107: Developmental Algebra (or equivalent)

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### **MTH128: Algebra I (Next Generation)**

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**Recommended Grade Level:** 9-10

**Course Description:** K12's Algebra I course is designed to align to state standards while engaging and motivating students. The fundamental purpose of this course is to extend the mathematics that students learned in the middle grades. In some ways, this is a more ambitious version of Algebra I than before. The critical areas of study are linear and exponential relationships, applying linear models to data, and analyzing, solving, and using quadratic functions.

**Materials:** Reference Guide

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### **MTH208: NG Geometry (Next Generation)**

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**Recommended Grade Level:** 9-11

**Course Description:** K12's Geometry course is designed to align to state standards while engaging and motivating students. The course builds on the geometry covered in middle school to explore more complex geometric situations and deepen students' ability to explain geometric relationships, moving towards formal mathematical arguments. Specific topics include similarity and congruence, analytic geometry, circles, the Pythagorean theorem, right triangle trigonometry, analysis of three-dimensional objects, conic sections, and geometric modeling.

**Materials:** Reference Guide

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### **MTH307: Practical Math**

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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

**Prerequisites:** Algebra I

### **MTH308: NG Algebra II (Next Generation)**

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**Recommended Grade Level:** 9-12

**Course Description:** K12's Algebra II course is designed to align to state standards while engaging and motivating students. Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, radical, and trigonometric functions. Students also expand their abilities to model situations and solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The course covers sequences and series, probability distributions, and more advanced data analysis techniques.

**Materials:** Reference Guide

**Prerequisites:** Algebra I and Geometry (or equivalents)

**Course Length:** Two Semesters

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### **MTH403: Pre-Calculus/Trigonometry (Comprehensive)**

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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 SEM. The second SEM 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

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

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### **MTH500: AP Calculus AB**

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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

**Prerequisites:** Success in MTH204: Honors Geometry, MTH304: Honors Algebra II, MTH403: Pre-Calculus/Trigonometry (or equivalents), and teacher/ school counselor recommendation [\[back to the top\]](#)

### **MTH510: AP Statistics**

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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

**Prerequisites:** Success in MTH304: Honors Algebra II (or equivalent) and teacher/school counselor recommendation [\[back to the top\]](#)

### **MTH520: AP Calculus BC**

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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

**Prerequisites:** Success in MTH204: Honors Geometry, MTH304: Honors Algebra II, MTH403: Pre-Calculus/Trigonometry (or equivalents), and teacher/school counselor recommendation [\[back to the top\]](#)

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## **SCIENCE**

### **SCI102: Physical Science (Core)**

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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 hands-on laboratory investigations making up half of the learning experience.

**Course Length:** Two Semesters

**Prerequisites:** K12 middle school Physical Science (or equivalent) [\[back to the top\]](#)

### **SCI112: Earth Science (Core)**

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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, 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.

**Course Length:** Two Semesters

**Prerequisites:** K<sup>12</sup> middle school Earth Science (or equivalent) [\[back to the top\]](#)

### **SCI202: Biology (Core)**

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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, and hands-on laboratory experiments students can conduct at home.

**Course Length:** Two Semesters

**Prerequisites:** K<sup>12</sup> middle school Life Science (or equivalent)

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### SCI203: Biology (Comprehensive)

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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, and hands-on laboratory experiments students can conduct at home.

**Course Length:** Two Semesters

**Prerequisites:** K12 middle school Life Science (or equivalent)

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### SCI302: Chemistry (Core)

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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 and related assessments, used with a problem-solving book. Instructions for hands-on labs are included.

**Course Length:** Two Semesters

**Prerequisites:** K<sup>12</sup> middle school Physical Science or SCI102: Physical Science and satisfactory grasp of algebra basics, evidenced by success in MTH122: Algebra I (or equivalent)

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### SCI303: Chemistry (Comprehensive)

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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 and related assessments, used with a problem-solving book. Instructions for hands-on labs are included.

**Course Length:** Two Semesters

**Prerequisites:** Satisfactory completion of either K<sup>12</sup> middle school Physical Science or SCI102: Physical Science and solid grasp of algebra basics, evidenced by success in MTH122: Algebra I (or equivalents)

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### SCI403: Physics (Comprehensive)

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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 and related assessments, plus an associated problem-solving book and instructions for conducting hands-on laboratory experiments at home.

**Course Length:** Two Semesters

**Prerequisites:** MTH303: Algebra II and MTH403: Pre-Calculus/Trigonometry (or equivalents)

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### SCI404: Physics (Honors)

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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 and related assessments, plus an associated problem-solving book and instructions for conducting hands-on laboratory experiments at home.

**Course Length:** Two Semesters

**Prerequisites:** MTH303: Algebra II and MTH403: Pre-Calculus/Trigonometry (or equivalents)

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### SCI321-CEN Anatomy and Physiology 1

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This **Recommended Grade Level:** 11 and 12

**Course Description:** These courses provide a thorough introduction to the basics required for the study of the human body and how it functions. Students receive a general introduction to life functions, the terminology, and phonetic pronunciations used to describe body parts

and their locations, as well as an overall review of human development and body processes. This course also includes infection control and standard precautions, which emphasizes the importance of maintaining health and safety in the health-care work environment, as well as highlights the latest practices and protocols.

**Materials:** NA

**Length:** 1 semester

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## SCI321-CEN Anatomy and Physiology 2

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**Recommended Grade Level:** 11 and 12

**Course Description:** These courses provide a thorough introduction to the basics required for the study of the human body and how it functions. Students receive a general introduction to life functions, the terminology, and phonetic pronunciations used to describe body parts and their locations, as well as an overall review of human development and body processes. This course also includes infection control and standard precautions, which emphasizes the importance of maintaining health and safety in the health-care work environment, as well as highlights the latest practices and protocols.

**Materials:** NA

**Length:** 1 Semester

**Prerequisite:** SCI321-CEN Anatomy and Physiology 1

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## SCI500: AP Biology

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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

**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

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## SCI510: AP Chemistry

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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 first 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 and to widely used textbooks.

**Course Length:** Two Semesters

**Prerequisites:** Success in SCI304: Honors Chemistry and MTH304: Honors Algebra II (or equivalents), and teacher/school counselor recommendation

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## SCI530-AVT: AP Environmental Science

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This course—the equivalent of an introductory college-level course—examines the interrelationships of the natural world. Students identify and analyze environmental problems and their effects, and evaluate the effectiveness of proposed solutions. They learn to think like environmental scientists: making predictions based on observations, writing hypothesis, designing and completing field studies and experiments, and reaching conclusions based on the analysis of data derived from these experiments. Students apply the concepts of environmental science to their everyday experiences and current issues in science, politics, and society. Students participate in guided inquiry, student-centered learning, and critical thinking, and leave the course prepared for the AP exam and further study in environmental science.

**Course Length:** Two Semesters

**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

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## **TCH027: Green Design and Technology**

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Grades: 11 and 12

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

Materials: None

Prerequisites: None

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## **OTH033: Veterinary Science (electives)**

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As animals play an increasingly important role in our lives, scientists have sought to learn more about their health and well-being. Taking a look at the pets that live in our homes, on our farms, and in zoos and wildlife sanctuaries, this course examines some of the common diseases and treatments for domestic animals. Toxins, parasites, and infectious diseases affect not only the animals around us, but at times, us humans as well! Through veterinary medicine and science, the prevention and treatment of diseases and health issues are studied and applied.

**Course Length:** One semester

**Materials:** None

**Prerequisites:** None

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## HISTORY AND SOCIAL SCIENCES

### HST102: World History (Core)

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**Grade:** 9

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 K<sup>12</sup>. 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

**Prerequisites:** K<sup>12</sup> middle school American History A, World History A or World History B (or equivalents)

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### HST103: World History (Comprehensive)

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**Grade:** 9

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 the context of the historical narrative. Online lessons and assessments complement *World History: Our Human Story*, a textbook written and published by K<sup>12</sup>. 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

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### HST202: Modern World Studies (Core)

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**Grade:** 11 or 12

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

**Prerequisites:** HST102: World History

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### HST203: Modern World Studies (Comprehensive)

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**Grade:** 11 or 12

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

**Prerequisites:** HST103: World History

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### HST302: U.S. History (Core)

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**Grade:** 10

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

**Prerequisites:** HST102: World History (or equivalents)

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### **HST304: Honors U.S. History**

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Grade: 10

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 K<sup>12</sup>'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 SEM.

**Course Length:** Two Semesters

**Prerequisites:** HST103 World History, and teacher/school counselor recommendation

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### **HST500: AP U.S. History**

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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*, 9th ed. George Tindall and David E. Shi (W.W. Norton, 2013)

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

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### **HST510: AP U.S. Government and Politics**

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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

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

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### **HST520: AP Macroeconomics**

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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.

**Course Length:** One Semester

**Prerequisites:** Success in MTH303: Algebra II (or equivalent) and teacher/school counselor recommendation

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### **HST530: AP Microeconomics**

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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

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

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### **HST540: AP Psychology**

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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

**Prerequisites:** Teacher/school counselor recommendation

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### **HST560: AP World History**

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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

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

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### **HST020-AVT: Psychology (Elective or SS credit)**

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In this introductory course, students explore why people think and act the way they do. Topics include key terms, the major concepts and theories of psychology, and ethical standards that govern psychological research. Students develop critical thinking skills to evaluate theories and current research, learn how psychological principles apply to their own lives, and build on reading, writing, and discussion skills.

**Course Length:** One Semester

**Prerequisites:** None

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### **HST030-AVT: Economics (Elective or SS credit, recommend taking with personal finance)**

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Economics is the study of how societies use limited resources to satisfy their unlimited wants and needs. It is the foundation of this course as students learn how fundamental decisions about the four factors of production; land, labor, capital, and entrepreneurship are made. Key topics covered include: law of supply and demand, saving, borrowing, and spending, the Federal Reserve System and the money supply, and the role of government in an open market economy.

**Course Length:** One Semester

**Prerequisites:** None

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### **HST050-AVT: Sociology (Elective or SS Credit)**

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This course offers a study of human relationships in society. Students explore concepts of society, culture, and social structure. They examine social institutions, including families, religion, and education; and investigate the influence of government and economic systems. They study development over childhood, adolescence, and the adult years. They also examine social problems, including discrimination, poverty, and crime.

**Course Length:** Two Semesters

**Prerequisites:** None

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### **OTH091: Law and Order (Elective or SS Credit)**

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Every society has laws that its citizens must follow. From traffic laws to regulations on how the government operates, laws help provide society with order and structure. Our lives are guided and regulated by our society's legal expectations. Consumer laws help protect us from faulty goods; criminal laws help protect society from individuals who harm others; and family law handles the arrangements and issues that arise in areas like divorce and child custody. This course focuses on the creation and application of laws in various areas of society. By understanding the workings of our court system, as well as how laws are actually carried out, students become more informed and responsible citizens.

**Course Length:** One semester

**Materials:** None

**Prerequisites:** None

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### **BUS030: Personal Finance (Elective ONLY- Recommend taking with Economics)**

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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

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## **WORLD LANGUAGES**

### **WLG100: Spanish I**

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Students begin their introduction to Spanish with fundamental building blocks in four key areas of world language study: listening comprehension, speaking, reading, and writing. Students are initially trained to recognize key sounds and basic vocabulary, not only in written form but also through ear training that leads quickly to oral production. Vocabulary and grammar topics are introduced in an ongoing adventure story that prompts students to use skills from all four language-learning areas. Students learn fundamental grammar as embedded in authentic spoken language. Cultural information covers major Spanish-speaking areas in Europe and the Americas. Engaging graphics, videos, and games keep students interested, and make learning languages exciting.

**Course Length:** Two Semesters

**Prerequisites:** None

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

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### **WLG200: Spanish II**

In this continuing introduction to Spanish, students deepen their focus on four key skills in world language acquisition: listening comprehension, speaking, reading, and writing. A continuing storyline introduces and reinforces new vocabulary, while activities prompt students to analyze meaning from context, and then to reproduce new vocabulary in real-life oral expression. Additional verb tenses and idiomatic expressions are also introduced. As in Spanish I, students learn grammar through supplemental texts that supply traditional charts, tables, and explanations. Cultural information addresses Spanish as it is used around the globe. Engaging graphics, videos, and games keep students interested, and make learning languages exciting.

**Course Length:** Two Semesters

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

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### **WLG300: Spanish III**

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Intermediate Spanish students who have a strong base of vocabulary, speaking, and listening skills reach a new level of mastery and fluency in this course. Through games and compelling stories, students learn advanced grammar and vocabulary, with an emphasis on correct accents and comprehension of real-world native speech. Error-recognition technology helps students eliminate common mistakes from their speaking and writing. Engaging graphics, videos, and games keep students interested, and make learning languages exciting.

**Course Length:** Two Semesters

**Prerequisites:** WLG200: Spanish II (or equivalent)

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### **WLG400-AVT: Spanish IV**

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Students continue to sharpen listening, speaking, reading, and writing skills. They learn to express themselves using an ever-increasing vocabulary, present- and past-tense verbs, articles, and adjectives. Grammar is introduced and practiced with a variety of learning styles in mind. Throughout the course, students experience the culture, people, geographical locations, and histories of the Spanish-speaking world.

**Course Length:** Two Semesters

**Prerequisites:** WLG300: Spanish III (or equivalent)

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### **WLG500: AP Spanish Language**

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In AP Spanish Language, students perfect their Spanish speaking, listening, reading, and writing skills. They study vocabulary, grammar, and cultural aspects of the language, and apply what they've learned in extensive written and spoken exercises. By the end of the course, students will have an expansive vocabulary and a solid working knowledge of all Spanish verb forms and tenses. The equivalent of a college-level language course, AP Spanish Language prepares students for the AP exam and for further study of Spanish language, culture, and literature.

**Course Length:** Two Semesters



**Prerequisites:** Strong success in WLG300: Spanish III, or success in WLG400-AVT: Spanish IV (or equivalents), and teacher/school counselor recommendation [\[back to the top\]](#)

### **WLG110: French I**

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Students begin their introduction to French with fundamental building blocks in four key areas of world language study: listening comprehension, speaking, reading, and writing. Students are initially trained to recognize key sounds and basic vocabulary, not only in written form but also through ear training that leads quickly to oral production. An ongoing adventure story introduces vocabulary and grammar topics, and prompts students to use skills from the four language-learning areas. Students learn fundamental grammar as embedded in authentic spoken language. Engaging graphics, videos, and games keep students interested, and make learning languages exciting.

**Course Length:** Two Semesters

**Prerequisites:** None [\[back to the top\]](#)

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

### **WLG210: French II**

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In this continuing introduction to French, students deepen their focus on four key skills in world language acquisition: listening comprehension, speaking, reading, and writing. A continuing storyline introduces and reinforces new vocabulary, while activities prompt students to analyze meaning from context, and then to reproduce new vocabulary items in functional real-life oral expression. Additional verb tenses and idiomatic expressions are also introduced. As in French I, students learn grammar through supplemental texts that supply traditional charts, tables, and explanations. Engaging graphics, videos, and games keep students interested, and make learning languages exciting.

**Course Length:** Two Semesters

**Prerequisites:** WLG110: French I, middle school French 1 and 2 (or equivalents) [\[back to the top\]](#)

### **WLG310: French III**

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Intermediate French students who have a strong base of vocabulary, speaking, and listening skills reach a new level of mastery and fluency in this course. Through games and compelling stories, students learn advanced grammar and vocabulary, with an emphasis on correct accents and comprehension of real-world native speech. Error-recognition technology helps students eliminate common mistakes from their speaking and writing. Engaging graphics, videos, and games keep students interested, and make learning languages exciting.

**Course Length:** Two Semesters

**Prerequisites:** WLG210: French II (or equivalent) [\[back to the top\]](#)

### **WLG410-AVT: French IV**

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Students continue to sharpen listening, speaking, reading, and writing skills. They learn to express themselves using an expanding vocabulary; present, past, future and conditional verbs; articles; adjectives; and increasingly complex grammatical structures. Grammar is introduced and practiced with a variety of learning styles in mind. Throughout the course, students experience the culture, people, geographical locations, and histories of the French-speaking world.

**Course Length:** Two Semesters

**Prerequisites:** WLG310: French III (or equivalent) [\[back to the top\]](#)

### **WLG510: AP French Language**

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In AP French Language, students apply their French grammar and vocabulary knowledge and their listening, reading, speaking, and writing skills to a wide variety of real-world contexts. Students learn to speak fluently and accurately, write sophisticated compositions, and comprehend native speakers. The equivalent of a college-level language course, AP French Language prepares students for the AP exam and for further study of French language, culture, and literature.

**Course Length:** Two Semesters

**Prerequisites:** Strong success in WLG310: French III, or success in WLG410-AVT: French IV (or equivalents), and teacher/school counselor recommendation [\[back to the top\]](#)

### **WLG120: German I**

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Students begin their introduction to German with fundamental building blocks in four key areas of world language study: listening comprehension, speaking, reading, and writing. Students are initially trained to recognize key sounds and basic vocabulary, not only in written form but also through ear training that leads quickly to oral production. An ongoing adventure story introduces vocabulary and grammar topics, and prompts students to use skills from the four language-learning areas. Students learn fundamental grammar as embedded in authentic spoken language. Engaging graphics, videos, and games keep students interested, and make learning languages exciting.

**Course Length:** Two Semesters

**Prerequisites:** None

**Note:** Students who have already succeeded in middle school German 2 should enroll in German II rather than in German I. [\[back to the top\]](#)

### **WLG220: German II**

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In this continuing introduction to German, students deepen their focus on four key skills in world language acquisition: listening comprehension, speaking, reading, and writing. A continuing storyline introduces and reinforces new vocabulary, while activities prompt students to analyze meaning from context, and then to reproduce new vocabulary items in functional real-life oral expression. Additional verb tenses and idiomatic expressions are also introduced. As in German I, students learn grammar through supplemental texts supplying traditional charts, tables, and explanations. Engaging graphics, videos, and games keep students interested, and make learning languages exciting.

**Course Length:** Two Semesters

**Prerequisites:** WLG120: German I, middle school German 1 and 2 (or equivalents) [\[back to the top\]](#)

### **WLG320-AVT: German III**

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Students build on their German-language skills, learning vocabulary and grammatical concepts to participate in meaningful conversations. They learn cultural information about numerous aspects of life (present and past) in German-speaking countries. Course strategies include warm-up activities, vocabulary study, reading, threaded discussions, multi-media presentations, self-checks, practice activities and games, oral and written assignments, projects, quizzes, and exams.

**Course Length:** Two Semesters

**Prerequisites:** WLG220: German II (or equivalent) [\[back to the top\]](#)

### **WLG420-AVT: German IV**

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Students continue to sharpen their reading, writing, and listening skills. They practice critical thinking and express themselves on topics relevant to German culture. They learn vocabulary, grammar skills, and cultural competency to express themselves on a variety of topics in German. The course includes authentic texts, current culture, and literature from Germany, Austria, and Switzerland. Throughout the course, students learn about German history and multiculturalism as well as German scientists, artists, writers, and inventors.

**Course Length:** Two Semesters

**Prerequisites:** WLG320-AVT: German III (or equivalent) [\[back to the top\]](#)

## **ELECTIVES AND ADDITIONAL COURSES**

### **BUS111-CEN General Accounting**

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**Recommended Grade Level:** 11

Course Description: These courses provide students with a foundation in the mechanics of accounting, as well as the opportunity to apply accounting concepts to real world situations and make informed business decisions. Students explore case studies of companies such as TOMS Shoes, iTunes, American Eagle, McDonald's, and Google. Students master valued skills, such as critical thinking and technology use, and commercial technology. Students become equipped to work with Microsoft Excel®, Peachtree®, QuickBooks®, and Automated Accounting Online. The courses include units on careers in accounting, ethics, global awareness, financial literacy, and forensic accounting.

**Materials:** NA

**Prerequisites:** None [\[back to the top\]](#)

### **BUS040: Introduction to Entrepreneurship I (Elective Only)**

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**Recommended Grade Level:** 11 & 12

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

Materials: None

Prerequisites: None [\[back to the top\]](#)

### **BUS041: Introduction to Entrepreneurship II (Elective Only)**

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**Recommended Grade Level:** 11 & 12

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

Materials: None

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

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### **BUS030: Personal Finance (Elective)**

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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

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### **HST020-AVT: Psychology (Elective)**

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In this introductory course, students explore why people think and act the way they do. Topics include key terms, the major concepts and theories of psychology, and ethical standards that govern psychological research. Students develop critical thinking skills to evaluate theories and current research, learn how psychological principles apply to their own lives, and build on reading, writing, and discussion skills.

Course Length: One Semester

Prerequisites: None

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### **HST030-AVT: Economics (Elective)**

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Economics is the study of how societies use limited resources to satisfy their unlimited wants and needs. It is the foundation of this course as students learn how fundamental decisions about the four factors of production; land, labor, capital, and entrepreneurship are made. Key topics covered include: law of supply and demand, saving, borrowing, and spending, the Federal Reserve System and the money supply, and the role of government in an open market economy.

Course Length: One Semester

Prerequisites: None

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### **HST050-AVT: Sociology (Elective)**

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This course offers a study of human relationships in society. Students explore concepts of society, culture, and social structure. They examine social institutions, including families, religion, and education; and investigate the influence of government and economic systems. They study development over childhood, adolescence, and the adult years. They also examine social problems, including discrimination, poverty, and crime.

Course Length: Two Semesters

Prerequisites: None

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### **OTH010: Skills for Health (Elective)**

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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

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### **OTH020: Physical Education (Elective)**

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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 SEMs as needed to fulfill state requirements.

Course Length: One Semester (or more)

Prerequisites: None

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**CESA 2: Driver's Safety (Elective) LIMITED to 25 students; Student Cost: \$50.00**

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This course is instructed through CESA 2 and is certified to meet the state department of transportation's or motor vehicle's requirements for learners permit issuance. 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. This course does NOT include Behind the Wheel. There is a \$50.00 fee for this course as it is instructed through CESA 2.

**Course Length:** One Semester (SEMESTER 2)

**COST:** \$50.00

**Prerequisites:** None

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**OTH060-AVT: Family and Consumer Science (Elective)**

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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

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**OTH035: Early Childhood Education (Elective)**

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Children experience enormous changes in the first few years of their lives. They learn to walk, talk, run, jump, read and write, among other milestones. Caregivers can help infants, toddlers, and children grow and develop in positive ways. This course is for students who want to influence the most important years of human development. In the course, students learn how to create fun and educational environments for children; how to keep the environment safe for children; and how to encourage the health and well-being of infants, toddlers, and school-aged children.

**Course Length:** One semester

**Materials:** None

**Prerequisites:** None

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**OTH093: Introduction to Culinary Arts**

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Food is fundamental to life. Not only does it feed our bodies, but it's often the centerpiece for family gatherings and social functions. In this course, students learn all about food, including food culture, food history, food safety, and current food trends. They also learn about the food service industry and prepare some culinary dishes. Through hands-on activities and in-depth study of the culinary arts field, this course helps students hone their cooking skills and gives them the opportunity to explore careers in the food industry.

**Course Length:** One Semester

**Materials:** Household items (not supplied). Household items required: Stand mixer, meat thermometer, assorted ingredients for recipes

**Prerequisites:** None

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**OTH080: Nutrition and Wellness (Elective)**

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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

**Materials:** None

**Prerequisites:** None

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## TECHNOLOGY AND COMPUTER SCIENCE

### TCH-020V2: Computer Fundamentals

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In this introductory course, students will become familiar with the basic principles of a personal computer, including the internal hardware, the operating system, and software applications. Students will gain practice in using key applications such as word processors, spreadsheets and presentation software, as well as understand social and ethical issues around the Internet, information and security.

This is a two-semester course package. In the first semester, the focus is on the fundamentals, learning and using the applications, and understanding the basic roles and responsibilities of the software, hardware and operating system. In the second semester, the focus is on gathering and analyzing data, and using the right tools and methods to collect and present data. This course should not be taken if the student has already completed Computer Literacy.

**Course Length:** Two semesters

**Software:** OpenOffice.org version 3.2; Mozilla Firefox; Adobe Reader; Adobe Flash Player; 7-Zip compression program (all available by free download within the course)

**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 x 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 x 768 or higher monitor resolution.

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### TCH040: Web Design (Elective)

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This course provides a comprehensive introduction to the essentials of web design, from planning page layouts to publishing a complete site to the web. Students learn how to use HTML to design their own web pages. The course covers basic HTML tags for formatting text, as well as more advanced tags. Through real-world design scenarios and hands-on projects, students create compelling, usable websites using the latest suite of free tools.

Course Length: One semester

Materials: None

Prerequisites: None

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### TCH070: Game Design (Elective)

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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 2.5 (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

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## ORIENTATION

### ORN010: Online Learning

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The Online Learning course explains to students how the K<sup>12</sup> 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<sup>12</sup> high school courses.

**Course Length:** 6–8 hours

**Prerequisites:** None

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**ORN100: Finding Your Path I**

**ORN200: Finding Your Path II**

**ORN300: Finding Your Path III**

**ORN400: Finding Your Path IV**

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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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