DESTINATIONS
Career Academy of Wisconsin
POWERED BY K12

DCAWI COURSE CATALOG
GRADES 9–12
2017-18 SCHOOL YEAR

Course ID	DCAWI Course List (SY17-18)	Core	Comp	Honors	AP Designates college level course (weighted)	Elective	*Disclaimer: DCAWI course offerings are subject to student interest and staffing. DCAWI will make every effort to meet individual student course requests but some courses may not be available.* ***** Availability is based on enrollment and ability to staff course.*** ***(N) = new course*** ***(O) = online book(s) included*** ***All courses, unless otherwise noted, are two SEMs.*** ***V= Virtual Lab (no materials)*** **** one-SEM course***
	ENGLISH						
ENG102A/	Literature Analysis and Composition I	•					With counselor or teacher recommendation only.
ENG108A/B	English 9		•				9th grade
ENG202	Literature Analysis and Composition II	•					With counselor or teacher recommendation only.
ENG208A/B	English 10		•				10th Grade
ENG303 A/B	American Literature		•				11th grade
ENG402A/B	British and World Literature **(O)**	•					12th grade (honors not available)
ENG510 A/B	AP English Literature and Composition				♦		*"B" or higher grade in English coursework, k12 instructor*
	SOCIAL SCIENCES						
HST102/103	World History **(O)**	•	♦				9th Grade
HST202	Modern World Studies **(O)**	•					11th Grade
HST302/304	U.S. History **(O)**	•		♦			10th Grade/ Core and Honors
HST500A/B	AP U.S. History				♦		K12 Instructed/Independent
HST510-CEN	AP US Government & Politics* (N)				♦		K12 Instructed/Independent
HST520	AP Macroeconomics*				♦		K12 Instructed/Independent
HST530	AP Microeconomics*				♦		K12 Instructed/Independent
HST540	AP Psychology* **SEM 2**				♦		College Level
HST560A/B	AP World History				♦		K12 Instructed/ Independent
HST060	Sociology I **SEM1 (N)**	•				•	SS Elective Option
HST061	Sociology II **SEM2 (N)**						SS Elective Option
HST020A	Psychology* **SEM 1 or SEM 2**		•			•	SS Elective Option
HST213A/B	Geography **(N)**	•				•	SS Elective Option
HST030	Economics* **SEM 2**	•				•	SS Elective Option

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	MATHMATICS						
MTH001A/B	Math Foundations I	Remedial					Remediation
MTH112A/B	Pre-Algebra (O)	•					
MTH107A/B	Developmental Algebra (O)	•					Year-1 of Algebra I
MTH207A/B	Continuing Algebra I (O)	•					Year -2 of Algebra I
MTH128A/B	Algebra I (O)		♦				
MTH208A/B	Fundamentals of Geometry	•					FUNDAMENTALS
MTH208A/B	Geometry (O)		♦				
MTH 307A/B	Practical Math (O)	•					Successful completion of Algebra I required
MTH308A/B	Algebra II (O)		♦				Recommended for all students 2-4 year college.
MTH403A/B	Pre-Calculus/Trigonometry		♦				
MTH500A/B	AP Calculus AB				♦		College Level Course
MTH520A/B	AP Calculus BC (O)				♦		K12 Instructed Course/Independent
MTH510A/B	AP Statistics				♦		K12 Instructed Course/Independent
MTH322A/B	Consumer Math	•				•	
	SCIENCE						
SCI102	Physical Science **(V) (O)**	♦					9th grade
SCI112	Earth Science **(V) (O)**	•	♦				11th grade
SCI202	Fundamentals of Biology						
SCI203	Biology **(V) (O)**	•	♦				REQUIRED for graduation. 10th grade.
SCI303	Chemistry **(V) (O)**	•	♦				Recommended for 4 year college students
SCI403	Physics **(V) (O)**		♦	♦			Comprehensive and Honors Available
SCI530-CEN	AP Environmental Science (N)				•		Biology prerequisite/ IST Instructed/ Independent
SCI500	AP Biology				♦		Biology prerequisite/ IST Instructed
SCI510	AP Chemistry				♦		Biology, Chemistry prerequisite/ IST Instructed
TCH027	Astronomy **SEM 2**	•				•	Grade 11 & 12/ SCI or Elective
SCI321-CEN	Anatomy and Physiology I **SEM 1**		•			•	Grade 11 & 12/ SCI or Elective
SCI322-CEN	Anatomy and Physiology II **SEM 2**		•			•	Grade 11 & 12/ SCI or Elective
OTH033	Veterinary Science* **SEM 1**	•				•	Grade 11 & 12/ SCI or Elective
SCI010	Environmental Science **SEM 1 or 2**						Grade 11 & 12/ Science or Elective Available both Sem 1 and 2

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	PATHWAY COURSES						
	Health Sciences: CNA						
CAR010-DYN	Healthcare Explorations/USA **SEM 1 or 2**	•					This course is designed as an exploration of the healthcare career clusters and employment skills. In this course, students explore basic concepts in the broad areas of health care and essential employment skills, as well as career options. This course introduces students to the various disciplines within the health sciences, including toxicology, clinical medicine, and biotechnology. Students explore the importance of diagnostics and research in the identification and treatment of diseases.
HLT121	Health Sciences II **SEM1**	•					Challenging. Variable. Rewarding. These three words can be used to describe many careers in the health sciences. In this course, you will learn more about what it takes to be a successful health science professional, including how to communicate with patients. You'll explore the rights and responsibilities of both patients and health science professionals in patient care and learn more about how to promote wellness among patients and health care staffs. Finally, you'll learn more about safety in health science settings and the challenges and procedures of emergency care, infection control, and blood-borne pathogens.
HLT212- CEN	Introduction to Medical Terminology **SEM 2**	•					This course is designed for the beginning healthcare student and simplifies the process of learning hundreds of complex medical terms. The course helps students understand specialties, pathology, diagnostic techniques, and treatment procedures. The course includes critical thinking exercise scenarios that involve patients and pathology so students can apply their knowledge to the real world.
SCI321-CEN	Anatomy and Physiology I **SEM 1**	•					
SCI322-CEN	Anatomy and Physiology II **SEM 2**	•					
HLT511-CEN	Nursing Assistant with Exam Prep 1, 2 (Each 9 weeks Semester I)	•					These courses prepare nursing assistants for meaningful careers in acute care, long-term care, and home health. Students learn more than 150 procedures, including key skills in patient handling and transfers, wound care, communication, safety, and record keeping. Students also learn about infection control, safety, culture, working with difficult patients, OSHA, communication, age-appropriate care, and legal considerations.
HLT512-CEN	Nursing Assistant with Exam Prep 3 (9 weeks of semester II)	•					These courses prepare nursing assistants for meaningful careers in acute care, long-term care, and home health. Students learn more than 150 procedures, including key skills in

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							patient handling and transfers, wound care, communication, safety, and record keeping. Students also learn about infection control, safety, culture, working with difficult patients, OSHA, communication, age-appropriate care, and legal considerations.
	Technical College CNA Licensure Program				•		At your local technical school, you will take the 6 -8 week CNA course for licensure completion. Prerequisites required. **(YO/CO)**
	INFORMATION TECHNOLOGY: PROGRAMMING						
CAR020	IT Explorations/Skills USA **SEM 1 & 2**	•					This course is designed as an exploration of careers in technology. The first half of the 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. The second half of the course is focused on employment skills.
TCH110 CEN	Intro to Computer Science **SEM 1**	•					This course provides a solid foundation using an algorithm-driven approach that is ideal for students' first course in Computer Science. Students learn about emerging topics, such as privacy, drones, cloud computing, and net. Students also are introduced to programming languages such as C++, Java, Python, C#, and Ada.
TCH211-CEN	Programming Logic & Design **SEM 2**	•					This course takes a unique, language-independent approach to programming, with a distinctive emphasis on modern conventions and prepares students for all programming situations with introductions to object-oriented concepts, UML diagrams, and databases.
TCH101-CEN	Java Programming 1 **SEM 1**	•					These courses introduce programmers to the power of Java for developing applications while learning the basic principles of structured and object-oriented programming. These courses incorporate the latest version of Java with meaningful real-world exercises, and a wealth of case problems helps students build skills critical for ongoing programming success.
TCH211-CEN	Java Programming 2 **SEM 2**	•					These courses introduce programmers to the power of Java for developing applications while learning the basic principles of structured and object-oriented programming. These courses incorporate the latest version of Java with meaningful real-world exercises, and a wealth of case problems helps students build skills critical for ongoing programming success.

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TBA	* HTML5/CSS3 Programming (CEN) **SEM 2**	•					**TBA- Course is currently under construction.**
TCH112-CEN	Microsoft Word 2016/365 with Exam Prep **SEM 1**	•					This course covers the latest that Microsoft Office Word has to offer. While completing projects, students learn how to use the programs as well as why each step in the process is necessary. The course engages students in critical thinking and problem-solving skills to create their own solutions using Microsoft Word. For instance, students learn how to create a variety of documents and use a variety of document collaboration and integration tools. Students have the opportunity to learn about Cloud and Web technologies. Microsoft Office 2013 is currently supported (Microsoft Office 2016 and Microsoft Office 365 will be available in September 2016).
	CONSTRUCTION						
CAR020	Construction Exploration/Skills USA **SEM 1 & 2**	•					This course is designed as an exploration of a career in the Construction Heavy Equipment industry. Students will get an introduction to this field and explore students explore employment as heavy equipment operators, mechanics, or surveyors. They will survey a variety of construction equipment such as cranes, bulldozers, excavators, forklifts, front end loaders, and backhoes. as well as career options.
MFG201-ALV	Basic Construction Equipment Fundamentals **SEM 2**	•					FVTC Technical & HS credit course
TBD	Basic Grade **SEM 1**	•					FVTC Technical & HS credit course
TBD	Basic Maintenance **SEM 2**	•					FVTC Technical & HS Credit Course
	BUSINESS MANAGEMENT & ADMINISTRATION						
CAR010	Business Explorations/Skills USA	•					This course is designed as an exploration of a career in the business industry. Students will get an introduction to this field so that they can better assess which pathway to pursue. In this course, students explore basic concepts in the broad areas of business as well as career options in each area. In addition to studying concepts of entrepreneurship, accounting, and marketing, students explore these concepts on scales that range from a single person to nations. The second part of this course introduces students to employment skills.
BUS060	Introduction to Marketing I **SEM 1**	•					
BUS070	Introduction to Marketing II **SEM 1**	•					Students build on the skills and concepts learned in Introduction to Marketing I to develop a basic understanding of marketing

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							principles and techniques. By the end of the course, they will have developed their own comprehensive marketing plan for a new business. Pre- Req: Marketing 1
BUS041	Intro to Entrepreneurship II **SEM 2**	•					
BUS111	Accounting 1 (N) SEM 1	•					
BUS112	Accounting 2 (N) SEM 2	•					
TCH112-CEN	Microsoft Word 2016/365 with Exam Prep **SEM 1**	•					This course covers the latest that Microsoft Office Word has to offer. While completing projects, students learn how to use the programs as well as why each step in the process is necessary. The course engages students in critical thinking and problem-solving skills to create their own solutions using Microsoft Word. For instance, students learn how to create a variety of documents and use a variety of document collaboration and integration tools. Students have the opportunity to learn about Cloud and Web •technologies. Microsoft Office 2013 is currently supported (Microsoft Office 2016 and Microsoft Office 365 will be available in September 2016).
	ELECTIVES						
HST020	Psychology* **SEM 1 or SEM 2**	•				♦	SS/ Elective Option
HST060	Sociology I **SEM1**	•				•	SS Elective Option
HST061	Sociology II **SEM2**	•				•	SS Elective Option
OTH060	Family and Consumer Science* **SEM 2**	•				•	SS /Elective Option
BUS111	Accounting 1 **(N) SEM 1**	•				•	Elective Option
BUS112	Accounting 2 **(N) SEM 2**	•				•	
MTH322	Consumer Math	•				•	Math/Elective Option
OTH060	Family and Consumer Science* **SEM 2**	•				•	Elective Option
OTH050	Achieving Your Career & College Goals **SEM 1**	•					Recommended for 11th & 12th grades
OTH010	Skills for Health* **SEM 2**	•				•	Required for graduation
OTH020	Physical Education ***SEM 1**	•				•	Required for graduation
OTH070	Driver's Safety* **SEM 2 (Limited to 25)**	•				•	Does not include behind the wheel. State Certified. Taken through CESA 2
OTH032	Astronomy **SEM 2**	•				•	Grade 11 & 12/ SCI or Elective
SCI321-CEN	Anatomy and Physiology I* **SEM 1**		•			•	11th & 12th Science/ Elective Option
SCI322-CEN	Anatomy and Physiology II * **SEM 2**		•			•	11th & 12th Science/ Elective Option

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OTH033	Veterinary Science* **SEM 1**	•				•	11th & 12th Science/ Elective Option
BUS030	Personal Finance* **SEM 1**	•				•	Elective Option
HST030	Economics* **SEM 2**	•				•	SS/Elective Option
OTH080	Nutrition & Wellness * **SEM 2**	•				•	Elective Option
OTH093	Intro to Culinary Arts* **SEM 1**	•				•	Elective Option
	TECHNOLOGY ELECTIVES						
TCH020V2	Computer Fundamentals	*				*	Year-long Course, Elective Option
TCH040	Web Design* **SEM 1**	*				*	
TCH701	Game Design with Multifusion *** SEM 2**	•				•	
	ORIENTATION						
ORN010	Online Learning						Tutorial

High School Courses (9–12)

ENGLISH

ENG102: Literary Analysis and Composition I

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
Prerequisites: Teacher/school counselor recommendation only [back to the top]

ENG108: English 9

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 [back to the top]

ENG202: Literary Analysis and Composition II

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
Prerequisites: ENG102: Literary Analysis and Composition I. Teacher/school counselor recommendation only [back to the top]

ENG208 English 10

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 [back to the top]

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

Prerequisites: English 9 and English 10 (or equivalent) [back to the top]

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
Prerequisites: ENG302: American Literature (or equivalent) [back to the top]

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: teacher/ Counselor recommendation. B or better in English 11, American Literature, and/or British Literature.
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MATHEMATICS

MTH001-APL: Math Foundations I (Remedial)

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 only [back to the top]

MTH322-AVT: Consumer Math (Core)

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 [back to the top]

MTH112: Pre-Algebra

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
Prerequisites: Teacher/school counselor recommendation only [back to the top]

MTH107: Developmental Algebra

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)
Prerequisites: Teacher/school counselor recommendation only [back to the top]

MTH207: Continuing Algebra

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)
Prerequisites: Teacher/school counselor recommendation only [back to the top]

MTH128: Algebra I

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 [back to the top]

MTH208: Fundamental Geometry

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 **Course**
Length: Two Semesters
Prerequisites: MTH122: Algebra I (or equivalent), Teacher/Counselor Recommendation only [back to the top]

MTH208: Geometry

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
Prerequisites: MTH122: Algebra I (or equivalent) [back to the top]

MTH307: Practical Math

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 [back to the top]

MTH308: Algebra II

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 [back to the top]

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 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 Algebra II (or equivalents) [back to the top]

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

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

MTH520: AP Calculus BC

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 AP Calculus AB and teacher/school counselor recommendation [back to the top]

SCIENCE

SCI102: Physical Science

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

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SCI112: Earth Science

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

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SCI202: Fundamentals of Biology

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: Teacher/Counselor Recommendation. Completion of Physical Science

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SCI203: Biology

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 and Physical Science

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SCI303: Chemistry

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: SCI102: Physical Science and solid grasp of algebra basics, evidenced by success in Algebra I.

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

Course Length: Two Semesters

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

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OTH032: Astronomy

Why do stars twinkle? Is it possible to fall into a black hole? Will the sun ever stop shining? Since the first glimpse of the night sky, humans have been fascinated with the stars, planets, and universe. This course introduces students to the study of astronomy, including its history and development, basic scientific laws of motion and gravity, the concepts of modern astronomy, and the methods used by astronomers to learn more about the universe. Additional topics include the solar system, the Milky Way and other galaxies, and the sun and stars. Using online tools, students examine the life cycle of stars, the properties of planets, and the exploration of space.

Materials: NA

Length: 1 semester

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SCI321-CEN Anatomy and Physiology 1

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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SCI322-CEN Anatomy and Physiology 2

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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SCI010 Environmental Science

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.

Materials: NA
Length: 1 Semester
Prerequisite: None

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OTH033: Veterinary Science (electives)

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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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
Prerequisites: Success Biology, Chemistry, Algebra I (or equivalents), and teacher/school counselor recommendation required; success in Algebra II highly recommended.

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SCI510: AP Chemistry

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 Chemistry and Algebra II, and teacher/school counselor recommendation. [back to the top]

SCI530-CEN: AP Environmental Science

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): usuall (AP): Biology, or Life Science, and either (AP): Chemistry or Physics or (AP): Physics; and an A grade in Algebra I; Earth Science is recommended, and teacher/school counselor recommendation [back to the top]

HISTORY AND SOCIAL SCIENCES

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 K[12]. 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[12] middle school American History A, World History A or World History B (or equivalents) [back to the top]

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 the context of the historical narrative. Online lessons and assessments complement *World History: Our Human Story*, a textbook written and published by K[12]. 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 [back to the top]

HST202: Modern World Studies (Core)

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 [back to the top]

HST302: U.S. History

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) [back to the top]

HST304: Honors U.S. History

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 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 SEM.
Course Length: Two Semesters
Prerequisites: HST103 World History, and teacher/school counselor recommendation [back to the top]

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*, 9th ed. George Tindall and David E. Shi (W.W. Norton, 2013)
Prerequisites: Success in previous history course and teacher/school counselor recommendation [back to the top]

HST510-CEN: 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
Prerequisites: Success in Honors U.S. History (or equivalent) and teacher/school counselor recommendation [back to the top]

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.
Course Length: One Semester
Prerequisites: Success in: Algebra II (or equivalent) and teacher/school counselor recommendation [back to the top]

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

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
Prerequisites: Teacher/school counselor recommendation [back to the top]

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
Prerequisites: Success in previous history course and teacher/school counselor recommendation [back to the top]

HST020-AVT: Psychology (Elective or SS credit)

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 [back to the top]

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

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 [back to the top]

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 [back to the top]

HST060 and HST061: Sociology (Elective or SS Credit)

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 [back to the top]

HST213: Geography (Elective or SS Credit)

This Geography course will examine a broad range of geographical perspectives covering all of the major regions of the world. Each region will be reviewed in a similar structure in order for students to more clearly see the similarities and differences between each region. Specifically, the course will explore where each region is located along with its physical characteristics, including absolute and relative location, climate, and significant geographical features. The exploration will then continue on to look at each region from a cultural, economic, and political perspective, closely examining the human impact on each region from these perspectives as well as how human activities impact the environments of the region.
Course Length: Two Semesters
Prerequisites: None [back to the top]

OTH091: Law and Order (Elective or SS Credit)

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 [back to the top]

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

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 [back to the top]

WORLD LANGUAGES

WLG100: Spanish I

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. [back to the top]

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) [back to the top]

WLG300: Spanish III

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) [back to the top]

WLG400-AVT: Spanish IV

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) [back to the top]

WLG500: AP Spanish Language

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

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

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

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

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

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

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

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

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

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 Accounting 1

Recommended Grade Level: 10
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

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BUS112-CEN Accounting 2

Recommended Grade Level: 10
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: Successful completion of BUS111-CEN

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BUS041: Introduction to Entrepreneurship II

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 Marketing I.

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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

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HST020-AVT: Psychology

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

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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HST050A and B: Sociology I & II

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.
Prerequisites: None

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HST213: Geography (Elective or SS Credit)

This Geography course will examine a broad range of geographical perspectives covering all of the major regions of the world. Each region will be reviewed in a similar structure in order for students to more clearly see the similarities and differences between each region. Specifically, the course will explore where each region is located along with its physical characteristics, including absolute and relative location, climate, and significant geographical features. The exploration will then continue on to look at each region from a cultural, economic, and political perspective, closely examining the human impact on each region from these perspectives as well as how human activities impact the environments of the region.

Course Length: Two Semesters

Prerequisites: None

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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

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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 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

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)

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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OTH050: Achieving Your Career and College Goals Arts

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 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. Use of Career Cruising.

Course Length: One semester

Materials: None. Will use Career Cruising.

Prerequisites: None

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OTH093: Introduction to Culinary Arts

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 [back to the top]

OTH080: 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
Materials: None
Prerequisites: None

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TECHNOLOGY AND COMPUTER SCIENCE

TCH-020V2: Computer Fundamentals

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 an 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 MV 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)

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 [back to the top]

TCH071: 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 2.5 (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 [back to the top]

ORIENTATION

D-ORN010V4-D: 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

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