



# JEDI Virtual School Course Offerings 2018-2019 Grades 6-12

JEDI courses provide a personalized learning solution for students seeking acceleration, remediation or enhanced career readiness opportunities. Using the online venue, students choose to remain in their district buildings or engage in courses from a flexible environment.

**NOTE REGARDING JEDI COURSE DESCRIPTIONS:** JEDI uses multiple vendors and the descriptions may vary slightly. Course availability is subject to change at any time. To discuss NCAA eligibility or to inquire for additional course details, please contact your Student Services Coordinator. Grade levels listed are suggested.

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# ***HIGH SCHOOL COURSE OPTIONS***

## **ENGLISH LANGUAGE ARTS**

### **AP English Language & Composition [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 10-12***

***PREREQUISITE: None***

Our online AP® English Language and Composition course invites students to investigate rhetoric and its impact on culture through analysis of notable fiction and nonfiction texts, from pamphlets to speeches to personal essays. The equivalent of an introductory college-level survey class, this course prepares students for the AP exam and for further study in communications, creative writing, journalism, literature, and composition.

Students explore a variety of textual forms, styles, and genres. By examining all texts through a rhetorical lens, students become skilled readers and analytical thinkers. Focusing specifically on language, purpose, and audience gives them a broad view of the effect of text and its cultural role. Students write expository and narrative texts to hone the effectiveness of their own use of language, and they develop varied, informed arguments through research. Throughout the course, students are evaluated with assessments specifically designed to prepare them for the content, form, and depth of the AP® Exam.

AP® English Language and Composition is recommended for 11th and 12th grade students. This course fulfills 11th grade requirements. Consequently, we recommend that students take only one of the following courses: English 11, Texas English III, and AP English Language and Composition.

#### **Required Materials Sem 1:**

The Great Gatsby. F. Scott Fitzgerald.

Into the Wild. Jon Krakauer.

#### **Required Materials Sem 2:**

A Raisin in the Sun. Lorraine Hansberry.

The Way to Rainy Mountain. N. Scott Momaday.

The Grapes of Wrath. John Steinbeck..

The Things They Carried. Tim O'Brien..

### **AP English Literature & Composition [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 10-12***

***PREREQUISITE: At least a B-grade in most recent English course***

Our AP® English Literature and Composition online course immerses students in novels, plays, poems, and short stories from various periods. Students will read and write daily, using a variety of multimedia and interactive activities, interpretive writing assignments, and class discussions to assess and improve their skills and knowledge. The course places special emphasis on reading comprehension, structural and critical analysis of written works, literary vocabulary, and recognizing and understanding literary devices. The equivalent of an introductory college-level survey class, this course prepares students for the AP® exam and for further study in creative writing, communications, journalism, literature, and composition.

#### **Required Materials:**

The Norton Anthology of Poetry, 5th ed. Margaret Ferguson, Mary Jo Salter et al, eds. (W.W. Norton, 2005).

ISBN-10: 0393979202 / ISBN-13: 9780393979206

Acceptable alternate: 4th ed. (1996). ISBN-10: 0393968200

Short Fiction: An Anthology, 1st ed. (Bedford/St. Martins, 2009).

ISBN-10: 0312576374

Hedda Gabler. Henrik Ibsen

A Streetcar Named Desire. Tennessee Williams

Their Eyes Were Watching God. Zora Neale Hurston

Twelfth Night. William Shakespeare

The Great Gatsby. F. Scott Fitzgerald  
Annie John. Jamaica Kincaid  
Jane Eyre. Charlotte Bronte.

## **American Literature [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 10-12**

**PREREQUISITE: English 9**

American Literature is a one-credit course divided into a Semester I and Semester II segments. In this course students will be reading and interacting with various works from the American literary canon in order to develop an understanding of how literature can reflect the characteristics of a nation. The course takes a chronological approach to the study of American literature. As students read, they will be asked to reflect on the literary pieces in a variety of ways, think critically about the themes brought to light by the works read, and consider how these themes impact the world students live in today. In essence, the goal of this course is to help bridge the gap of relevance between American literature from all periods and the life students live today. The first semester of this course will cover the periods from approximately the 1500's to The American Revolution to Present Day.

**Required Materials:** Reading materials can be obtained at your local library. Please see materials list posted within course.

## **Composition I**

**CREDIT: 0.5**

**GRADE LEVEL: 10-12**

**PREREQUISITE: English 9**

This course provides students the opportunity to practice and hone writing skills. Students will participate in a variety of writing assignments including show vs. tell, description, narration, definition/negation, classification, metaphor, and problem/solution. In addition to writing essays, students will strengthen their knowledge of mechanics, usage, and grammar through mini lessons and writing practice.

## **Creative Writing**

**CREDIT: 0.5**

**GRADE LEVEL: 11-12**

**PREREQUISITE: English 10**

Our online Creative Writing course is an English elective course that focuses on the exploration of short fiction and poetry, culminating in a written portfolio that includes one revised short story and three to five polished poems. Students draft, revise, and polish fiction and poetry through writing exercises, developing familiarity with literary terms and facility with the writing process as they study elements of creative writing.

Elements of fiction writing explored in this course include attention to specific detail, observation, character development, setting, plot, and point of view. In the poetry units, students learn about the use of sensory details and imagery, figurative language, and sound devices including rhyme, rhythm and alliteration. They also explore poetic forms ranging from found poems and slam poetry to traditional sonnets and villanelles.

In addition to applying literary craft elements in guided creative writing exercises, students engage in critical reading activities designed to emphasize the writing craft of a diverse group of authors. Students study short stories by authors such as Bharati Mukherjee and Edgar Allan Poe, learning how to create believable characters and develop setting and plot. Likewise, students read poetry by canonical greats such as W. B. Yeats and Emily Dickinson as well as contemporary writers such as Pablo Neruda, Sherman Alexie, and Alice Notley. Studying the writing technique of a range of authors provides students with models and inspiration as they develop their own voices and refine their understanding of the literary craft.

By taking a Creative Writing course, students find new approaches to reading and writing that can affect them on a personal level, as the skills they gain in each lesson directly benefit their own creative goals. Students who are already actively engaged writers and readers learn additional tools and insight into the craft of writing to help them further hone their skills and encourage their creative as well as academic growth. All English elective content is based on the National Council of Teachers of English (NCTE) standards.

## **English 9 [S1, S2] \*Available as Honors**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9***

***PREREQUISITE: None***

Our online English 9 course is an overview of exemplar selections of literature in fiction and nonfiction genres. Students read short stories, poems, a full-length novel, and a full-length Shakespeare play, analyzing the use of elements of literature in developing character, plot, and theme. For example, in selected stories, students compare the effect of setting on tone and character development. Likewise, in the poetry unit, students analyze how artists and writers draw from and interpret source material.

Each unit includes informational texts inviting students to consider the historical, social, and literary context of the main texts they study. For example, in the first semester, a Nikolai Gogol story that is offered as an exemplar of magical realism is accompanied by instruction on that genre. Together, the lesson content and reading prompt students to demonstrate their understanding of magical realism by analyzing its qualities in a literary text.

Throughout the course, students respond to others' claims and support their own claims in essays, discussions, and presentations, consistently using thorough textual evidence. The range of texts includes canonical authors such as William Shakespeare, Franz Kafka, and Elie Wiesel, as well as writers from diverse backgrounds, such as Alice Walker, Li-Young Lee, and Robert Lake-Thom (Medicine Grizzlybear).

**Required Materials:** Reading materials can be obtained at your local library. Please see materials list posted within course.

## **English 10 [S1, S2] \*Available as Honors**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 10***

***PREREQUISITE: English 9***

The focus of the Our online English 10 course is the writing process. Three writing applications guide the curriculum: persuasive, expository, and narrative writing. Each lesson culminates in a written assignment that lets students demonstrate their developing skill in one of these applications.

English 10 follows the model of by including at least one anchor text per lesson, but the essays, articles, stories, poems, and speeches are often presented as models for students to emulate as they practice their own writing. So that these readings may serve as proper examples for students, a high proportion of texts for this course are original pieces.

English 10 also continues to develop students' reading, listening, and speaking skills. Readings include poems, stories, speeches, plays, and a graphic novel, as well as a variety of informational texts. The readings represent a wide variety of purposes and cultural perspectives, ranging from the Indian epic The Ramayana to accounts of Hurricane Katrina told through different media. Audio and video presentations enhance students' awareness and command of rhetorical techniques and increase their understanding of writing for different audiences.

**Required Materials:** Reading materials can be obtained at your local library. Please see materials list posted within course.

## **English 11 [S1, S2] \*Available as Honors**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 11***

***PREREQUISITES: English 9, 10***

In our online English 11 course, students examine the belief systems, events, and literature that have shaped the United States. They begin by studying the language of independence and the system of government developed by Thomas Jefferson and other enlightened thinkers. Next, they explore how the Romantics and Transcendentalists emphasized the power and responsibility of the individual in both supporting and questioning the government. Students consider whether the American Dream is still achievable and examine the Modernists' disillusionment with the idea that America is a "land of opportunity."

Reading the words of Frederick Douglass and the text of the Civil Rights Act, students look carefully at the experience of African Americans and their struggle to achieve equal rights. Students explore how individuals cope with the influence of war and cultural tensions while trying to build and secure their own personal identity. Finally, students examine how technology is affecting our contemporary experience of freedom: Will we eventually change our beliefs about what it means to be an independent human being?

In this course, students analyze a wide range of literature, both fiction and nonfiction. They build writing skills by composing analytical essays, persuasive essays, personal narratives, and research papers. In order to develop speaking and listening skills, students participate in discussions and give speeches. Overall, students gain an understanding of the way American literature represents the array of voices contributing to our multicultural identity.

**Required Materials:** Reading materials can be obtained at your local library. Please see materials list posted within course.

## **English 12 [S1, S2] \*Available as Honors**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 12**

**PREREQUISITE: None**

Our online English 12 course asks students to closely analyze British literature and world literature and consider how we humans define and interact with the unknown, the monstrous, and the heroic. In the epic poems *The Odyssey*, *Beowulf*, and *The Inferno*, in Shakespeare's *Tempest*, in the satire of Swift, and in the rhetoric of World War II, students examine how the ideas of "heroic" and "monstrous" have been defined across cultures and time periods and how the treatment of the "other" can make monsters or heroes of us all. Reading *Frankenstein* and works from those who experienced the imperialism of the British Empire, students explore the notion of inner monstrosity and consider how the dominant culture can be seen as monstrous in its ostensibly heroic goal of enlightening the world. Throughout this course, students analyze a wide range of literature, both fiction and nonfiction. They build writing skills by composing analytical essays, persuasive essays, personal narratives, and research papers. In order to develop speaking and listening skills, students participate in discussions and give speeches. Overall, students gain an understanding of the way British and world literature represent the array of voices that contribute to our global identity.

**Required Materials:** Reading materials can be obtained at your local library. Please see materials list posted within course.

## **English Foundations I [S1, S2]**

**CREDIT: 0.5**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

Our online English Foundations I course supports adolescent literacy development at the critical stage between decoding and making meaning from text. Through intensive reading and writing skills instruction, deep practice sets, consistent formative feedback, graduated reading levels, and helpful strategy tips, the course leads students to improved comprehension and text handling.

Semester 1 provides instruction in basic reading skills and vocabulary building. The student learns what a successful reader does to attack words and sentences and make meaning from them. Semester 2 provides instruction in basic writing skills, introduces academic tools, and demonstrates effective study skills. The student learns step-by-step processes for building effective paragraphs and learns how to use academic tools such as reference books and outlines. To provide additional support, the course uses text features and visual clues to draw students' attention to important information. The use of text features is also designed to help students internalize strategies for comprehending informational text.

Characters appear throughout the instruction to offer tips and fix-up strategies in an authentic, first-person, think-aloud format. Their inclusion makes transparent the reading processes that go on inside the mind of a successful reader. This extra metacognitive support serves to bolster student confidence and provide a model of process and perseverance.

Numerous practice opportunities are provided in the form of assessments that move from no stakes to low stakes to high stakes throughout a unit. This practice is centered on authentic and age-appropriate passages that are written in a topical framework and use controlled syntax and vocabulary. The difficulty of these passages gradually increases

from a 3rd- to 5th grade reading level over the duration of the course. Additional support is offered through significant formative feedback in practice and assessment.

This course guides students through the reading, writing, and basic academic skills needed to prepare for success in academic coursework. At the end of the course, the student should be poised for continued success in the academic world. The content is based on extensive national and state standards research and consultation with reading specialists and classroom teachers.

**Required Materials:** Reading materials can be obtained at your local library. Please see materials list posted within course.

## **English Foundations II [S1, S2]**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Our online English Foundations II course offers a year of skill building and strategy development in reading and writing. Semester one is a reading program designed to help struggling readers develop mastery in the areas of reading comprehension, vocabulary building, study skills, and media literacy. Semester two is a writing program which builds confidence in composition fundamentals by focusing on the areas of composing, grammar, style, and media literacy. Both semesters are structured around ten mini-units which offer interactive instruction and guided practice in each of the four learning strands. Students read for a variety of purposes and write for a variety of audiences. The workshops stress high interest, engaging use of technology, relevant topics, and robustly scaffolded practice. Students learn to use different types of graphic organizers as they develop and internalize reading and writing process strategies. They build confidence as they develop skills and experience success on numerous low stakes assessments that encourage growth and reinforce learning.

The reading program content is based on the National Council of Teachers of English (NCTE), International Reading Association (IRA), National Reading Program (NRP), and McREL, standards and aligned to state standards.

**Required Materials:** Reading materials can be obtained at your local library. Please see materials list posted within course.

## **Gothic Literature**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

From vampires to ghosts, these frightening stories have influenced fiction writers since the 18th century. This course will focus on the major themes found in Gothic literature and demonstrate how the core writing drivers produce, for the reader, a thrilling psychological environment. Terror versus horror, the influence of the supernatural, and descriptions of the difference between good and evil are just a few of the themes presented. By the time students have completed this course, they will have gained an understanding of and an appreciation for the complex nature of dark fiction.

**Required Materials:** Reading materials can be obtained at your local library. Please see materials list posted within course.

## **Journalism**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

If you're the first to know what's going on in your school or town, or the first to post on Facebook or Instagram about your favorite TV shows or favorite celebrities, then you're just the person that every online, in-print, and broadcast news outlet is looking for. And Journalism: Investigating the Truth is the perfect course for you! In this course, you'll learn how to write a lead that grabs your readers, how to write engaging news stories and features, and how to interview sources. You'll also learn about the history of journalism, how to succeed in the world of social media news, and how to turn your writing, photography, and people skills into an exciting and rewarding career.

## **Media Literacy**

***CREDIT: 0.5***



**GRADE LEVEL: 9-12**  
**PREREQUISITE: None**

Our online Media Literacy course teaches students how to build the critical thinking, writing, and reading skills required in a media-rich and increasingly techno-centric world. In a world saturated with media messages, digital environments, and social networking, concepts of literacy must expand to include all forms of media. Today's students need to be able to read, comprehend, analyze, and respond to non-traditional media with the same skill level they engage with traditional print sources.

A major topic in Media Literacy is non-traditional media reading skills, including how to approach, analyze, and respond to advertisements, blogs, websites, social media, news media, and wikis. Students also engage in a variety of writing activities in non-traditional media genres, such as blogging and podcast scripting.

Students consider their own positions as consumers of media and explore ways to use non-traditional media to become more active and thoughtful citizens. Students learn how to ask critical questions about the intended audience and underlying purpose of media messages, and study factors which can contribute to bias and affect credibility. The course content is based on The National Association for Media Literacy Education's Core Principles of Media Literacy Education, as well as aggregate state standards and research into best pedagogical practices.

### **Mythology & Folklore**

**CREDIT: 0.5**  
**GRADE LEVEL: 9-12**  
**PREREQUISITE: None**

Mighty heroes. Angry gods and goddesses. Cunning animals. Mythology and folklore have been used since the first people gathered around the fire as a way to make sense of humankind and our world. This course focuses on the many myths and legends woven into cultures around the world. Starting with an overview of mythology and the many kinds of folklore, the student will journey with ancient heroes as they slay dragons and outwit the gods, follow fearless warrior women into battle and watch as clever animals outwit those stronger than themselves. They will explore the universality and social significance of myths and folklore, and see how they are still to shape society today.

**Required Materials:** Reading materials can be obtained at your local library. Please see materials list posted within course.

### **Public Speaking [S1, S2]**

**CREDIT: 0.5 per semester**  
**GRADE LEVEL: 9-12**  
**PREREQUISITE: None**

Does the thought of speaking in front of people makes you break out in hives? Maybe you want tips on how to make that first great impression? In both cases, Public Speaking may be just what you need. In this class you will learn from famous orators, like Aristotle and Cicero, how to communicate effectively, uphold your arguments, and effectively collaborate with others. You'll master the basics of public speaking through practice—such as building a strong argument and analyzing the speeches of others—eventually learning to speak confidently in front of large groups. Grab your notes and get ready to conquer public speaking.

### **Reading Comprehension**

**CREDIT: 0.5**  
**GRADE LEVEL: 9-12**  
**PREREQUISITE: None**

This course is divided into five sections, and along the way you will be introduced to two different approaches to reading comprehension. We will start out slowly with small reading portions and gradually move towards longer, graduated reading selections. The main objective of this course is to help the student develop skills and tools to become a strong, confident and successful reader. This course will introduce the student to several different reading comprehension techniques. By the time the student has completed the course, the goal is that he/she will be able to pick a couple of favorites and use them in real-life reading situations. The student is required to read *Night*, by Elie Wiesel, and will choose to watch one of the movies listed below.



**Required Materials:** *Night*, by Elie Wiesel. Reading & video materials can be obtained at your local library. Movie options: *The Pianist* (directed by Roman Polanski), *Night and Fog* (directed by Alain Resnais), *Schindler's List* (directed by Steven Spielberg), *Shoah* (directed by Claude Lanzmann), *Sophie's Choice* (directed by Alan J. Pakula), *Life Is Beautiful* (directed by Roberto Benigni), *The Sorrow and the Pity* (directed by Marcel Ophüls), *Jacob the Liar* (directed by Peter Kassovitz)

## **Reading Skills & Strategies**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Reading Skills and Strategies is a course designed to help the struggling reader develop mastery in the areas of reading comprehension, vocabulary building, study skills, and media literacy, which are the course's primary content strands. Using these strands, the course guides the student through the skills necessary to be successful in the academic world and beyond. The reading comprehension strand focuses on introducing the student to the varied purposes of reading (e.g., for entertainment, for information, to complete a task, or to analyze). In the vocabulary strand, the student learns specific strategies for understanding and remembering new vocabulary. In the study skills strand, the student learns effective study and test-taking strategies. In the media literacy strand, the student learns to recognize and evaluate persuasive techniques, purposes, design choices, and effects of media. The course encourages personal enjoyment in reading with 10 interviews featuring the book choices and reading adventures of students and members of the community.

**Required Materials:** Reading materials can be obtained at your local library. Please see materials list posted within course.

## **Research**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

The purpose of this course is to enable students to develop fundamental knowledge of the steps in the research process. From choosing appropriate and reliable sources, to writing and editing a research paper, students will learn proper techniques and helpful resources to complete a research paper on a topic of their choosing. Considerable course time will focus on how to give proper credit to sources, as well as how to avoid plagiarism. Through this course, students will learn valuable skills that can be applied any time they are required to complete research.

## **Style & Rhetoric**

***CREDIT: 0.5***

***GRADE LEVEL: 10-12***

***PREREQUISITE: English 9***

This course is designed to improve reading and writing. Students will go beyond identifying content (what authors say in their writing) to how they express their thoughts and why they express them the way they do. Students will apply techniques to discover in your critical reading to your own writing as you produce a children's story and write a poem based on a piece of art.

Students will focus on rhetoric (or the art of persuasion), as it exists in advertising and nonfiction. This portion of the course will include the study of persuasive techniques in advertising, illogical arguments and faulty reasoning, and webpage evaluations. The work will culminate with projects that require the application of knowledge of rhetoric to create a parody ad and a mock web page and writing a persuasive essay. In addition to critical reading and related writing, you will master the rules of Standard English and expand your vocabularies by breaking words apart and learning the meanings of various Latin roots. Besides making you a better reader, writer, and thinker, all these areas of study will help prepare you for standardized tests, such as the ACT and college-entrance exams.

## **Writing Skills & Strategies**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Our online Writing Skills and Strategies course develops key language arts skills necessary for high school graduation and success on high stakes exams through a semester of interactive instruction and guided practice in composition fundamentals. The course is divided into ten mini-units of study. The first two are designed to build early success and confidence, orienting students to the writing process and to sentence and paragraph essentials through a series of low-stress, high-interest hook activities. In subsequent units, students review, practice, compose and submit one piece of writing. Four key learning strands are integrated throughout: composition practice, grammar skill building, diction and style awareness, and media and technology exploration. Guided studies emphasize the structure of essential forms of writing encountered in school, in life, and in the workplace. Practice in these forms is scaffolded to accommodate learners at different skill levels.

## MATHEMATICS

### **AP Calculus AB [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 11-12**

**PREREQUISITE: Algebra II, Geometry, Pre-Calculus with Trigonometry**

In our AP<sup>®</sup> Calculus AB online course, students 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. Instead of simply getting the right answer, students learn to evaluate the soundness of proposed solutions and to apply mathematical reasoning to real-world models. Calculus helps scientists, engineers, and financial analysts understand the complex relationships behind real-world phenomena. The equivalent of an introductory college-level calculus course, AP<sup>®</sup> Calculus AB prepares students for the AP exam and further studies in science, engineering, and mathematics.

**Required Materials:**

TI-84 Plus, TI-83, or TI-83 Plus Calculator

Read "Getting Started" and chapter 1 in the TI Guidebook before the course starts.

**Optional Materials:**

Calculus: Single Variable, 8th ed. James Stewart (Brooks/Cole, 2016). ISBN-10: 1305266633 / ISBN-13: 9781305266636

### **AP Calculus BC [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 11-12**

**PREREQUISITE: Algebra II, Geometry, Pre-Calculus with Trigonometry**

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.

**Materials Required:**

TI-84 Plus, TI-83, or TI-83 Plus Calculator

Cracking the AP Calculus BC Exam, 2019 Edition SBN-13: 978-1524757991 or ISBN-10: 1524757993

### **AP Statistics [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 10-12**

**PREREQUISITE: Algebra II or Math Analysis**

AP Statistics gives students hands-on experience collecting, analyzing, graphing, and interpreting real-world data. They will learn to effectively design and analyze research studies by reviewing and evaluating real research examples taken from daily life. The next time they hear the results of a poll or study, they will know whether the results are valid. As

the art of drawing conclusions from imperfect data and the science of real-world uncertainties, statistics plays an important role in many fields. The equivalent of an introductory college-level course, AP Statistics prepares students for the AP exam and for further study in science, sociology, medicine, engineering, political science, geography, and business.

**Required Materials:**

TI-89, TI-84 Plus, TI-83, or TI-83 Plus Calculator

Read "Getting Started" and chapter 1 in the TI Guidebook before the course starts.

**Optional Materials:**

Barron's AP Statistics, 8th ed. Martin Sternstein (Barron's, 2015).

ISBN-10: 1438004982 / ISBN-13: 9781438004983

Acceptable alternate: 7th ed. (2013). 1438002025 / ISBN-13: 9781438002026

Acceptable alternate: 6th ed. (2012). ISBN-10: 0764147021

Acceptable alternate: 5th ed. (2010). ISBN-10: 0764140892

Acceptable alternate: 4th ed. (2008). ISBN-10: 0764136836

Introduction to Probability & Statistics, 14th ed. William Mendenhall, Robert J. Beaver, and Barbara M. Beaver (Brooks/Cole, 2015).

ISBN-10: 1133103758 / ISBN-13: 9781133103752

Acceptable alternate: 13th ed. (2009). ISBN-10: 0495389536

Acceptable alternate: 12th ed. (2006). ISBN-10: 0534418708

Acceptable alternate: 11th ed. (2003). ISBN-10: 0534395198

## **Algebra I [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

Algebra I builds students' command of linear, quadratic, and exponential relationships. Students learn through discovery and application, developing the skills they need to break down complex challenges and demonstrate their knowledge in new situations. Course topics include problem-solving with basic equations and formulas; an introduction to functions and problem solving; linear equations and systems of linear equations; exponents and exponential functions; sequences and functions; descriptive statistics; polynomials and factoring; quadratic equations and functions; and function transformations and inverses. This course supports students as they develop computational fluency, deepen conceptual understanding, and apply Common Core mathematical practice skills. Students discover new concepts through guided instruction and confirm their understanding in an interactive, feedback-rich environment. A variety of activities allow for students to think mathematically in a variety of scenarios and tasks. In Discussions, students exchange and explain their mathematical ideas. Modeling activities ask them to analyze real-world scenarios and mathematical concepts. Journaling activities have students reason abstractly and quantitatively, construct arguments, critique reasoning, and communicate precisely. And in Performance Tasks, students synthesize their knowledge in novel, real-world scenarios, make sense of multifaceted problems, and persevere in solving them. Throughout the course, students are evaluated by a variety of assessments designed to prepare them for the content, form, and depth of the Common Core assessments.

**Required Materials:** Graphing Calculator

## **Algebra II [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITES: Algebra I & Geometry**

Algebra II introduces students to advanced functions, with a focus on developing a strong conceptual grasp of the expressions that define them. Students learn through discovery and application, developing the skills they need to break down complex challenges and demonstrate their knowledge in new situations. Course topics include quadratic equations; polynomial functions; rational expressions and equations; radical expressions and equations; exponential and logarithmic functions; trigonometric identities and functions; modeling with functions; probability and inferential statistics; probability distributions; and sample distributions and confidence intervals. This course supports all students as they develop computational fluency, deepen conceptual understanding, and apply Common Core's eight mathematical practice skills. Students begin each lesson by discovering new concepts through guided instruction, and then confirm their understanding in an interactive, feedback-rich environment. Modeling activities equip students with tools for analyzing a variety of real-world scenarios and mathematical ideas. Journaling activities allow students to reason abstractly and quantitatively, construct arguments, critique reasoning, and communicate precisely. Performance tasks prepare students to synthesize their knowledge in novel, real-world scenarios and require that they make sense

of multifaceted problems and persevere in solving them. Throughout the course students are evaluated through a diversity of assessments specifically designed to prepare them for the content, form, and depth of the Common Core assessments.

**Required Materials:** Graphing calculator

### **Calculus [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 11-12 (or permission)**

**PREREQUISITE: Pre-Calculus**

The Calculus course is a comprehensive look at the study of differential and integral calculus concepts including limits, derivative and integral computation, linearization, Riemann sums, the Fundamental Theorem of Calculus, and differential equations. Applications include graph analysis, linear motion, average value, area, volume, and growth and decay models.

**Required Materials:** TI 84+ graphing calculator and Java

### **Consumer Math [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

This comprehensive review and study of arithmetic skills apply to both personal and vocational business opportunities. Topics include whole numbers, fractions, percentages, basic statistics, and graphs. Practical applications in finance, taxes, budgeting, banking and home ownership are provided.

### **Geometry [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 10-12 (or permission)**

**PREREQUISITE: Algebra I**

Geometry builds upon students' command of geometric relationships and formulating mathematical arguments. Students learn through discovery and application, developing the skills they need to break down complex challenges and demonstrate their knowledge in new situations. Course topics include reasoning, proof, and the creation of sound mathematical arguments; points, lines, and angles; triangles and trigonometry; quadrilaterals and other polygons; circles; congruence, similarity, transformations, and constructions; coordinate geometry; three-dimensional solids; and applications of probability.

This course supports all students as they develop computational fluency, deepen conceptual understanding, and apply Common Core's eight mathematical practice skills. Students begin each lesson by discovering new concepts through guided instruction, and then confirm their understanding in an interactive, feedback-rich environment. Modeling activities equip students with tools for analyzing a variety of real-world scenarios and mathematical ideas. Journaling activities allow students to reason abstractly and quantitatively, construct arguments, critique reasoning, and communicate precisely. Performance tasks prepare students to synthesize their knowledge in novel, real-world scenarios and require that they make sense of multifaceted problems and persevere in solving them. Throughout the course students are evaluated through a diversity of assessments specifically designed to prepare them for the content, form, and depth of the Common Core assessments.

**Required Materials:** Graphing calculator

### **Integrated Math I [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9**

**PREREQUISITE: None**

Integrated Math I continues the exploration of mathematical concepts by extending further into algebra, geometry, and descriptive statistics. The course emphasizes the relationships between quantities and the function rules that describe them. You will learn to represent data in various ways, interpret linear models, and use deductive reasoning to confirm or prove assertions about geometric figures.

## **Integrated Math II [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 10***

***PREREQUISITE: None***

Students in Integrated Math II will focus on pulling together and applying the accumulation of learning that they have acquired from their previous math courses. They will apply methods from probability and statistics; expand their repertoire of functions to include polynomial, rational, and radical functions; and expand their study of right triangle trigonometry. In addition, they will bring together all of their experience with functions and geometry to create models and solve contextual problems.

## **Integrated Math III [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 11***

***PREREQUISITE: None***

Students in Integrated Math III will focus on pulling together and applying the accumulation of learning that they have from their previous courses. They will apply methods from probability and statistics. Students will expand their repertoire of functions to include polynomial, rational, and radical functions. They will expand their study of right triangle trigonometry. Students will use all of their experience with functions and geometry to create models and solve contextual problems.

## **Math Foundation I [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 6-12***

***PREREQUISITE: None***

Math Foundations I offers a structured remediation solution based on the NCTM Curricular Focal Points and is designed to expedite student progress in acquiring 3rd- to 5th-grade skills. The course is appropriate for use as remediation for students in grades 6 to 12. When used in combination, Math Foundations I and Math Foundations II (covering grades 6 to 8) effectively remediate computational skills and conceptual understanding needed to undertake high school-level math courses with confidence. Math Foundations I empowers students to progress at their optimum pace through over 80 semester hours of interactive instruction and assessment spanning 3rd- to 5th-grade math skills. Carefully paced, guided instruction is accompanied by interactive practice that is engaging and accessible. Formative assessments help students to understand areas of weakness and improve performance, while summative assessments chart progress and skill development. Early in the course, students develop general strategies for honing their problem-solving skills. Subsequent units provide a problem-solving strand that asks students to practice applying specific math skills to a variety of real-world contexts. The content is based on the National Council of Teachers of Math (NCTM) April 2006 publication, Curricular Focal Points for Prekindergarten through Grade 8 Mathematics: A Quest for Coherence, and is aligned with state standards.

## **Math Foundations II [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 6-12***

***PREREQUISITE: None***

Based on the NCTM Curricular Focal Points, Math Foundations II is designed to expedite student progress in acquiring 6th- to 8th-grade skills. The course is appropriate for use as remediation at the high school level or as middle school curriculum. The program simultaneously builds the computational skills and conceptual understanding needed to undertake high school-level math courses with confidence. The course's carefully paced, guided instruction is accompanied by interactive practice that is engaging and accessible. Formative assessments help students to understand areas of weakness and improve performance, while summative assessments chart progress and skill development. Early in the course, students develop general strategies for honing their problem-solving skills. Subsequent units provide a problem-solving strand that asks students to practice applying specific math skills to a

variety of real-world contexts. The content is based on the National Council of Teachers of Math (NCTM) April 2006 publication, Curricular Focal Points for Prekindergarten through Grade 8 Mathematics: A Quest for Coherence, and is aligned with state standards.

### **Mathematics of Personal Finance [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 10-12***

***PREREQUISITE: Algebra I and Geometry or their equivalents***

Our online Mathematics of Personal Finance course focuses on real-world financial literacy, personal finance, and business subjects. Students apply what they learned in Algebra I and Geometry to topics including personal income, taxes, checking and savings accounts, credit, loans and payments, car leasing and purchasing, home mortgages, stocks, insurance, and retirement planning.

Students then extend their investigations using more advanced mathematics, such as systems of equations (when studying cost and profit issues) and exponential functions (when calculating interest problems). To assist students for whom language presents a barrier to learning or who are not reading at grade level, Mathematics of Personal Finance includes audio resources in both Spanish and English.

**Required Materials:** TI-84 Plus, TI-83, or TI-83 Plus Calculator

### **Pre-Algebra [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Our online Introductory Algebra course provides complete curriculum focused on foundational concepts that prepare students for success in Algebra I. Through a "Discovery-Confirmation-Practice"-based exploration of basic concepts, students are challenged to work toward a mastery of computational skills, to deepen their understanding of key ideas and solution strategies, and to extend their knowledge through a variety of problem-solving applications.

Course topics include integers; the language of algebra; solving equations with addition, subtraction, multiplication, and division; fractions and decimals; measurement; exponents; solving equations with roots and powers; multi-step equations; and linear equations.

Within each Introductory Algebra lesson, students are supplied with a scaffolded note-taking guide, called a Study Sheet, as well as a post-study Checkup activity that provides them the opportunity to hone their computational skills by working through a low-stakes, 10-question problem set before starting formal assessment. Unit-level Introductory Algebra assessments include a computer-scored test and a scaffolded, teacher-scored test. To assist students for whom language presents a barrier to learning or who are not reading at grade level, Introductory Algebra includes audio resources in both Spanish and English.

**Required Materials:** Forthcoming

### **Pre-Calculus [S1, S2] \*Available as Honors**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 11-12***

***PREREQUISITES: Algebra I, Algebra II, Geometry***

Our online Precalculus course is a course that combines reviews 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. The first semester includes linear, quadratic, exponential, logarithmic, radical, polynomial, and rational functions; systems of equations; and conic sections. The second semester covers trigonometric ratios and functions; inverse trigonometric functions; applications of trigonometry, including vectors and laws of cosine and sine; polar functions and notation; and arithmetic of complex numbers.

Within each Precalculus lesson, students are supplied with a post-study Checkup activity that provides them the opportunity to hone their computational skills by working through a low-stakes problem set before moving on to formal assessment. Unit-level Precalculus assessments include a computer-scored test and a scaffolded, teacher-scored test.



The content is based on the National Council of Teachers of Mathematics (NCTM) standards and is aligned with state standards.

**Required Materials:** TI-84 Plus, TI-83, or TI-83 Plus Calculator

## **Probability & Statistics**

**CREDIT: 0.5**

**GRADE LEVEL: 12**

**PREREQUISITES: 3 years HS Math**

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

**Required Materials:** TI-84 plus graphing calculator

# **SCIENCE**

## **AP Biology [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 10-12**

**PREREQUISITE: Biology**

Our online AP<sup>®</sup> Biology course builds students' understanding of biology on both the micro and macro scales. After studying cell biology, students move on to understand how evolution drives the diversity and unity of life. Students will examine how living systems store, retrieve, transmit, and respond to information and how organisms utilize free energy. This course is the equivalent of an introductory college-level biology course and prepares students for the AP<sup>®</sup> exam and for further study in science, health sciences, or engineering.

The AP<sup>®</sup> Biology course provides a learning experience focused on allowing students to develop their critical thinking skills and cognitive strategies. Frequent no- and low-stakes assessments allow students to measure their comprehension and improve their performance as they progress through each activity. Students regularly engage with primary sources, allowing them to practice the critical reading and analysis skills that they will need in order to pass the AP exam and succeed in a college biology course. Students perform hands-on labs that give them insight into the nature of science and help them understand biological concepts, as well as how evidence can be obtained to support those concepts. Students also complete several virtual lab studies in which they form hypotheses; collect, analyze, and manipulate data; and report their findings and conclusions. During both virtual and traditional lab investigations and research opportunities, students summarize their findings and analyze others' findings in summaries, using statistical and mathematical calculations when appropriate. Summative tests are offered at the end of each unit as well as at the end of each semester, and contain objective and constructed response items. Robust scaffolding, rigorous instruction, relevant material and regular active learning opportunities ensure that students can achieve mastery of the skills necessary to excel on the AP exam.

### **Required Materials:**

AP Biology requires a college-level biology textbook. Students may use any college level biology textbook to successfully complete the course.

Though students may use any college-level textbook, resources such as page references and scaffolded reading guides are provided in the course to support students who use either of the following texts:

Campbell Biology, 11th ed. Jane B. Reece et al. (Pearson Education, 2016).

ISBN-10: 0134093410 / ISBN-13: 9780134093413

Acceptable alternate: 10 ed.(2013). ISBN-10: 0321775651 / ISBN-13: 9780321775658

Acceptable alternate: 9th ed. (2011). ISBN-10: 0321558235

– OR –

Principles of Life, 2nd ed. David M. Hillis et al. (W. H. Freeman, 2014).

ISBN-10: 1464109478 / ISBN-13: 9781464109478

Acceptable alternate: 1st ed. (2011). ISBN-10: 1429257210

AP Biology requires the completion of hands-on lab activities and has been approved by the College Board as meeting all requirements for a laboratory science course. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>.

## **AP Chemistry [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 10-12**  
**PREREQUISITE: Chemistry**

Our online AP<sup>®</sup> Chemistry course builds students' understanding of the nature and reactivity of matter. After studying chemical reactions and electrochemistry, students move on to understand how the chemical and physical properties of materials can be explained by the structure and arrangements of the molecules and the forces between those molecules. Students will examine the laws of thermodynamics, molecular collisions, and the reorganization of matter in order to understand how changes in matter take place. Finally, students will explore chemical equilibria, including acid-base equilibria. The equivalent of an introductory college-level chemistry course, AP prepares students for the AP exam and for further study in science, health sciences, or engineering.

The AP<sup>®</sup> Chemistry course provides a learning experience focused on allowing students to develop their critical thinking skills and cognitive strategies. Frequent no- and low-stakes assessments allow students to measure their comprehension and improve their performance as they progress through each activity. Students regularly engage with primary source materials, allowing them to practice the critical reading and analysis skills that they will need in order to pass the AP exam and succeed in a college chemistry course. Students perform hands-on labs that give them insight into the nature of science and help them understand chemical concepts, as well as how evidence can be obtained to support those concepts. Students also complete several virtual lab studies in which they form hypotheses; collect, analyze, and manipulate data; and report their findings and conclusions. During both virtual and traditional lab investigations and research opportunities, students summarize their findings and analyze others' findings in summaries, using statistical and mathematical calculations when appropriate. Summative tests are offered at the end of each unit as well as at the end of each semester and contain objective and constructed response items. Robust scaffolding, rigorous instruction, relevant material, and regular active learning opportunities ensure that students can achieve mastery of the skills necessary to excel on the AP exam.

This course has been authorized by the College Board<sup>®</sup> to use the AP designation.

**Required Materials:**

AP Chemistry requires a college-level chemistry textbook. Students may use any college-level chemistry textbook to successfully complete the course. Though students may use any college-level textbook, resources such as page references and scaffolded reading guides are provided in the course to support students who use either of the following texts:

Chemistry, 10th ed. Steven S. Zumdahl and Donald J. DeCoste. (Brooks Cole, 2017).

ISBN-10: 1305957407 / ISBN-13: 9781305957404

Acceptable alternate: 9th ed. (2013). ISBN-10: 1133611095 / ISBN-13: 9781133611097

– OR –

Chemistry: The Molecular Nature of Matter, 7th ed. Neil D. Jespersen, James E. Brady and Alison Hyslop. (Wiley, 2011).

ISBN-10: 111851646X / ISBN-13: 9781118516461

Acceptable alternate: 6th ed. (2011). ISBN-10: 047057771

AP Chemistry requires the completion of hands-on lab activities and has been approved by the College Board as meeting all requirements for a laboratory science course. For a list of hands-on lab materials, go to <http://support.apexlearning.com/materials>

**AP Environmental Science [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 11-12**

**PREREQUISITE: Two years of high school laboratory science (one year of life science and one year of physical science), and one year of algebra**

AP<sup>®\*</sup> Environmental Science provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course draws upon various disciplines, including geology, biology, environmental studies, environmental science, chemistry, and geography in order to explore a variety of environmental topics. Topics explored include natural systems on Earth; biogeochemical cycles; the nature of matter and energy; the flow of matter and energy through living systems; populations; communities; ecosystems; ecological pyramids; renewable and nonrenewable resources; land use; biodiversity; pollution; conservation; sustainability; and human impacts on the environment. The equivalent of an introductory college-level science course, AP<sup>®</sup> Environmental Science prepares students for the AP exam and for further study in science, health sciences, or engineering.

The AP<sup>®</sup> Environmental Science course provides a learning experience focused on allowing students to develop their critical thinking skills and cognitive strategies. Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, deconstruct claims, form and test hypotheses, and use logic and evidence to draw conclusions about the concepts. Frequent no- and low-stakes assessments allow students to measure their comprehension and improve their performance as they progress through each activity.



Students perform hands-on labs and projects that give them insight into the nature of science and help them understand environmental concepts, as well as how evidence can be obtained to support those concepts. Virtual lab activities enable students to engage in investigations that would otherwise require long periods of observation at remote locations and to explore simulations that enable environmental scientists to test predictions. During both hands-on and virtual labs, students form hypotheses; collect, analyze, and manipulate data; and report their findings and conclusions. Throughout this course, students are given an opportunity to understand how biology, earth science, and physical science are applied to the study of the environment and how technology and engineering are contributing solutions for studying and creating a sustainable biosphere.

Summative tests are offered at the end of each unit as well as at the end of each semester, and contain objective and constructed response items. Robust scaffolding, rigorous instruction, relevant material, and regular active learning opportunities ensure that students can achieve mastery of the skills necessary to excel on the AP exam.

**Required Materials:**

AP<sup>®</sup> Environmental Science requires a college-level textbook, resources such as page references and scaffolded reading guides are provided in the course to support students who use either of the following texts:

Environment: The Science Behind the Stories, AP<sup>®</sup> Edition, 5th Edition. Jay Withgott, Matthew Laposta. (Pearson Education, 2014) ISBN-13: 978-0-13-354014-7

– **OR** –

Environment, 9<sup>th</sup> Edition. Peter H. Raven, David M. Hassenzahl, Mary Catherine Hager, Nancy Y. Gift, and Linda R. Berg. (John Wiley & Sons, 2015) ISBN-13: 978-1-118-87582-7

AP<sup>®</sup> Environmental Science requires the completion of hands-on lab activities and has been approved by the College Board as meeting all requirements for a laboratory science course. For a list of hands-on lab materials, visit: <http://support.apexlearning.com/materials>

Each lab contains complete instructions on how to perform the experiments. Apex Learning<sup>®</sup> recommends that all students keep a detailed lab notebook as evidence of their lab work.

## **AP Physics [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 11-12**

**PREREQUISITE: Algebra II**

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits.

Twenty-five percent of instructional time is devoted to hands-on laboratory work with an emphasis on inquiry-based investigations. Investigations will require students to ask questions, make observations and predictions, design experiments, analyze data, and construct arguments in a collaborative setting, where they direct and monitor their progress.

**Required Materials:** Graphing Calculator

Cracking the AP Physics 1 Exam, 2019 ISBN-13: 978-1524758080

ISBN-10: 1524758086

Lab materials: [See pages 2-3](#)

## **Agriscience I**

**CREDIT: 0.5**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

How can we make our food more nutritious? Can plants really communicate with each other? These are just two of the questions tackled in Introduction to Agriscience. From studying the secrets in corn roots to examining how to increase our food supply, this course examines how agri scientists are at the forefront of improving agriculture, food production, and the conservation of natural resources. In Introduction to Agriscience, you'll learn about the innovative ways that science and technology are put to beneficial use in the field of agriculture. You'll also learn more about some of the controversies that surround agricultural practices as nations strive to provide their people with a more abundant and healthy food supply.

## **Agriscience II**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: Agriscience I***

Have you ever strolled past a bright green cauliflower at the market and paused to ponder its unusual color? Ever wonder why “broccoli” is suddenly a thing? Well, if you find yourself curiously questioning these, and other, peculiar vegetables and wondering about the role of agriculture in the modern world, Agriscience II is for you. Learn how science and technology are revolutionizing our food supply and promoting innovative ways to produce healthy plant-based foods, such as developing better hybrids and growing edible plants in challenging places. Food is our most essential resource; see how plant science will change the face of eating in the 21st century and give us the knowledge to continually improve our green thumbs.

### **Required Materials:**

- Plant seeds or cuttings
- Growing media
- Growing container
- A sharp blade and rooting hormone, depending on the plant you choose
- Soil or other growing media
- Soil test kit
- 2-3 pots
- Seeds of your choice (make sure your growing medium is appropriate for the seed you chose)
- Plant
- Pest management materials (vary based on chosen strategy)

## **Anatomy**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

In this course students will explore the anatomy or structure of the human body. In addition to learning anatomical terminology, students will study and the main systems of the body— including integumentary, skeletal, muscular, circulatory, respiratory, digestive, reproductive, and nervous systems. In addition to identifying the bones, muscles, and organs, students will study the structure of cells and tissues within the body.

## **Astronomy [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 10-12***

***PREREQUISITE: None***

This course is a survey of descriptive astronomy; this course provides an understanding of the solar system, the night sky, and some of the practical aspects of astronomy. Topics covered include the earth-moon-sun relationships, the structure and dynamics of the solar system, stars and their properties, and the cosmology of the universe. Also, included is the historical development of astronomy and the role human behaviors and beliefs have played in its development.

**Required Materials:** Any device that can take a picture

## **Biology [S1, S2] \*Available as Honors**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Our online Biology course offers an in-depth course that furthers mastery of scientific skills. Biology Honors fosters a deep understanding of key concepts, and promotes the application of the scientific method to biological topics. The course begins with an introduction to the nature of science and biology, including the major themes of structure and function, matter and energy flow, systems, and the interconnectedness of life. Students then apply those themes

to the structure and function of the cell, cellular metabolism, and biogeochemical cycles. Building on this foundation, students explore the connections and interactions between living things by studying genetics, ecosystems and natural selection, and evolution. The course ends with an applied look at human biology.

Lab activities reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science.

Biology students are frequently asked to respond to scientific problems and issues via written assignments. Moreover, Exploration activities challenge Honors students to deconstruct scientific claims, analyze scientific articles, and suggest follow-up experiments or topics for further research.

## **Biotechnology [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

How is technology changing the way we live? Is it possible nature can provide all the answers to some of science's most pressing concerns? The fusion of biology and technology creates an amazing process and offers humanity a chance to significantly improve our existence through the enhancement of food and medicine. In Biotechnology: Unlocking Nature's Secrets, you'll learn how this field seeks to cure such deadly diseases as cancer and malaria, develop innovative medicine, and effectively feed the world through improved systems. Learn about the history of biotechnology and some of the challenges it faces today, such as resistant bacteria and genetically modified organisms in food. You will research new biotechnologies and understand firsthand how they are forever changing the world we live.

## **Chemistry [S1, S2] \*Available as Honors**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Our online Chemistry course offers a curriculum that emphasizes students' understanding of fundamental chemistry concepts while helping them acquire tools to be conversant in a society highly influenced by science and technology. The course provides students with opportunities to learn and practice critical scientific skills within the context of relevant scientific questions. Topics include the nature of science, the importance of chemistry to society, atomic structure, bonding in matter, chemical reactions, redox reactions, electrochemistry, phases of matter, equilibrium and kinetics, acids and bases, thermodynamics, quantum mechanics, nuclear reactions, organic chemistry, and alternative energy. Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, form and test hypotheses, and use logic and evidence to draw conclusions about the concepts. Lab activities reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science.

Throughout this course, students are given an opportunity to understand how chemistry concepts are applied in technology and engineering. Journal and Practice activities provide additional opportunities for students to apply learned concepts and practice their writing skills. Exploration activities challenge students to deconstruct scientific claims, analyze scientific articles, and suggest follow-up experiments or topics for further research. The content is based on the American Association for the Advancement of Science (AAAS) Project 2061 benchmarks and the National Science Education Standards and is aligned with state standards.

## **Environmental Science**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Our online Environmental Science course explores the biological, physical, and sociological principles related to the environment in which organisms live on Earth, the biosphere. Course topics include natural systems on Earth, biogeochemical cycles, the nature of matter and energy, the flow of matter and energy through living systems, populations, communities, ecosystems, ecological pyramids, renewable and non-renewable natural resources, land use, biodiversity, pollution, conservation, sustainability, and human impacts on the environment.

The course provides students with opportunities to learn and practice scientific skills within the context of relevant scientific questions. Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, deconstruct claims, form and test hypotheses, and use logic and evidence to draw conclusions about the concepts. Case studies of current environmental challenges introduce each content lesson and acquaint students with real-life environmental issues, debates, and solutions. Lab activities reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science. Virtual Lab activities enable students to engage in investigations that require long periods of observation at remote locations and to explore simulations that enable environmental scientists to test predictions. Throughout this course, students are given an opportunity to understand how biology, earth science, and physical science are applied to the study of the environment and how technology and engineering are contributing solutions for studying and creating a sustainable biosphere. The content is specifically aligned to state standards and the NGSS standards for life science, earth science, physical science, and engineering, technology, and society.

### **Earth Science [S1, S2] \*Available as Honors**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Our online Earth Science course is a robust course that explores Earth's composition, structure, processes, and history; its atmosphere, freshwater, and oceans; and its environment in space. Students are encouraged to look at Earth science from both personal and worldly perspectives and to analyze the societal implications of the topics covered. Laboratory experiments introduce students to different lab techniques while building their skills in critical thinking, inquiry, and observation.

Course topics include an exploration of the major cycles that affect every aspect of life, including weather, climate, air movement, tectonics, volcanic eruptions, rocks, minerals, geologic history, Earth's environment, sustainability, and energy resources. The content is based on the National Science Teachers Association (NSTA) standards and is aligned with state standards.

### **Great Minds in Science**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Is there life on other planets? What extremes can the human body endure? Can we solve the problem of global warming? Today, scientists, explorers, and writers are working to answer all of these questions. Like Edison, Einstein, Curie, and Newton, the scientists of today are asking questions and working on problems that may revolutionize our lives and world. This course focuses on 10 of today's greatest scientific minds. Each unit takes an in-depth look at one of these individuals, and shows how their ideas may help to shape tomorrow's world.

### **Marine Science**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Have you ever wondered about the secrets of the deep, and how the creatures below the ocean's surface live and thrive? It is truly a new frontier of discovery, and in Marine Science you will begin to better understand the aquatic cycles, structures, and processes that generate and sustain life in the sea. Through the use of scientific inquiry, research, measurement, and problem solving, you will conduct various scientific procedures that will lead to an increased level of knowledge about Marine Science. You will also have the opportunity to use technology and laboratory instruments in an academic setting. By recognizing the inherent ethics and safety procedures necessary in advanced experiments, you will become progressively more confident in your abilities as a capable marine scientist.

### **Physical Science [S1, S2] \*Available as Honors**

***CREDIT: 0.5 per semester***

**GRADE LEVEL: 9-12**  
**PREREQUISITE: None**

Our online Physical Science course is a thorough course that provides students with an understanding of the nature and structure of matter, the characteristics of energy, and the societal implications of physical science concepts. Using the scientific method — observation, data collection, analysis, hypothesis, and conclusion — students are encouraged to extend their knowledge through the development of scientific explanations, hypotheses, and conclusions. Course topics include an introduction to kinematics, including gravity and two-dimensional motion; force; momentum; waves; electricity; atoms; the periodic table of elements; molecular bonding; chemical reactivity; gases; and an introduction to nuclear energy.

**Note:** This course includes the option of either hands-on or dry lab activities. Dry labs require no additional lab materials.

## **Physics**

**CREDIT: 0.5**  
**GRADE LEVEL: 9-12**  
**PREREQUISITE: One year Algebra (two years recommended)**

Our online Physics course offers a curriculum that emphasizes students' understanding of fundamental physics concepts while helping them acquire tools to be conversant in a society highly influenced by science and technology. The course provides students with opportunities to learn and practice critical scientific skills within the context of relevant scientific questions. Topics include the nature of science, math for physics, energy, kinematics, force and motion, momentum, gravitation, chemistry for physics, thermodynamics, electricity, magnetism, waves, nuclear physics, quantum physics, and cosmology.

Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, form and test hypotheses, and use logic and evidence to draw conclusions about the concepts. Lab activities reinforce critical thinking, writing, and communication skills and help students develop a deeper understanding of the nature of science.

Throughout this course, students are given an opportunity to understand how physics concepts are applied in technology and engineering. Journal and Practice activities provide additional opportunities to apply learned concepts and practice their writing skills.

Exploration activities challenge students to deconstruct scientific claims, analyze scientific articles, and suggest follow-up experiments or topics for further research. The content is based on the American Association for the Advancement of Science (AAAS) Project 2061 benchmarks and the National Science Education Standards and is aligned with state standards.

## **Physiology**

**CREDIT: 0.5**  
**GRADE LEVEL: 10-12**  
**PREREQUISITE: Anatomy**

In this course, students will examine the functions of the body's biological systems— including skeletal, muscular, circulatory, respiratory, digestive, nervous, and reproductive systems. In addition to understanding the function of each system, students will learn the function of cells, blood, and sensory organs, as well as study DNA, immunity, and metabolic systems.

## **Science Foundations [S1, S2]**

**CREDIT: 0.5 per semester**  
**GRADE LEVEL: 9-12**  
**PREREQUISITES: Middle School Physical Science**

Our online Science Foundations course provides students with opportunities to develop the knowledge, skills, and strategies necessary for success in rigorous high school science courses. The course is appropriate for use as remediation at the high school level or as a bridge to high school.

Science Foundations is a two-semester course, with each semester containing 10 mini-units. Each mini-unit is composed of three lessons. The first lesson focuses on key concepts found in Earth science, physical science, and life science. The second lesson reinforces reading and math skills students need to be successful with the content

introduced in the first lesson. The third lesson introduces scientific inquiry and critical thinking skills that will help students thrive in science as well as other disciplines. Carefully paced, guided instruction is accompanied by engaging and accessible interactive practice. Checkup activities provide an opportunity to review content prior to assessment. Practice activities offer an opportunity to apply concepts that were presented in Study activities. The course is based on the National Science Education Standards (NSES) for middle school science.

### **Space Exploration**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

In 1961, Yuri Gagarin became the first human to go to space. In 1969, Neil Armstrong became the first human to step on the moon. This comprehensive course will examine the history and future of space travel. Find out how we have put people in space in the past, and what it will take for us to reach new frontiers, including Mars and beyond.

### **World of STEAM**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Each aspect of the arts relies on science and technology. In The World of STEAM, students will learn why the eye sees color, how a dancer uses gravity and what makes a sound wave travel. The arts, science and technology are intertwined, now more than ever. Understanding the science behind the art will elevate students to a new level of creativity.

- Anatomy: Discover the relationship between art and the human anatomy.
- Light: Explore reflection and absorption and break down the science to better apply it to your artistic works.
- Geometry: Understand the basics of drawing by using geometric shapes to create a balanced composition.
- Water: Take a closer look at the science of water and its importance in the arts.
- Technology: Learn about the technology behind microphones, lighting and other equipment used in performances.
- Music and math: Breakdown the math behind music to better understand music notation and organization.
- Sound: Learn about the science behind sound waves and how they travel.
- Biology: Take a step by step approach to breaking down the biology of dancing.
- Engineering: Analyze how math and science is used in architecture and building design.

## **SOCIAL STUDIES**

### **AP European History [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

This AP study of European history since 1300 introduces students to economic, cultural, social and political developments. These developments played a fundamental role in shaping the world in which they live. Second Semester will introduce students to the birth of modern political thought, Great Depression and World War II. They will study the Cold War and the collapse of communism and wrap up with the dawn of the 21st Century. Students will complete a project at the end of each unit with the final project being a critical analysis.

#### **Required Materials:**

Western Heritage, since 1300 (11th Edition) – Donald Kagan ISBN-13: 978-0134050225 or ISBN-10: 134050223  
Cracking the AP European History Exam, 2019 Edition ISBN-13: 978-0525567509 or ISBN-10: 052556750X



## **AP Macroeconomics**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 10-12***

***PREREQUISITE: Algebra II (or Math Analysis)***

AP<sup>®</sup> Macroeconomics 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. They'll also examine how individuals, institutions, and influences affect people, and how those factors can impact everyone's life through employment rates, government spending, inflation, taxes, and production. The equivalent of a 100-level college-level class, this course prepares students for the AP exam and for further study in business, political science and history.

**Optional Materials:** Macroeconomics for Today, 7th ed. Irvin B. Tucker (South-Western/Thomson Learning, 2010).

ISBN-10: 0538469447 / ISBN-13: 9780538469449

Acceptable alternate: 6th ed. (2008). ISBN-10: 0324591373

Acceptable alternate: 5th ed. (2007). ISBN-10: 0324407998

Acceptable alternate: 4th ed. (2005). ISBN-10: 0324301979

## **AP Microeconomics**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 10-12***

***PREREQUISITE: Algebra I***

AP<sup>®</sup> Microeconomics studies the behavior of individuals and businesses as they exchange goods and services in the marketplace. Students will learn why the same product costs different amounts at different stores, in different cities, at different times. They'll also learn to spot patterns in economic behavior and how to use those patterns to explain buyer and seller behavior under various conditions. Microeconomics studies the economic way of thinking, understanding 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 promoting a healthy economy. The equivalent of a 100-level college course, AP<sup>®</sup> Microeconomics prepares students for the AP<sup>®</sup> exam and for further study in business, history, and political science.

**Optional Materials:** Microeconomics for Today, 7th ed. Irvin B. Tucker (South-Western/Thomson Learning, 2010). ISBN-10: 0538469412 / ISBN-13: 9780538469418

Acceptable alternate: 6th ed. (2008). ISBN-10: 0324591381

Acceptable alternate: 5th ed. (2007). ISBN-10: 0324408005

Acceptable alternate: 4th ed. (2005). ISBN-10: 0324301928

## **AP Psychology**

***CREDIT: 0.5***

***GRADE LEVEL: 10-12***

***PREREQUISITE: Biology***

AP<sup>®</sup> Psychology provides an overview of current psychological research methods and theories. Students will 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 will study core psychological concepts, such as the brain and sense functions, and learn to gauge human reactions, gather information, and form meaningful syntheses. Along the way, students will also investigate relevant concepts like study skills and information retention. The equivalent of an introductory college-level survey course, AP<sup>®</sup> Psychology prepares students for the AP exam and for further studies in psychology or life sciences.

**Required materials:**

Psychology, 11th ed. David G. Myers (Worth Publishing, 2015).

ISBN-10: 1464140812 / ISBN-13: 9781464140815

Acceptable alternate: Psychology with Updates on DSM-5, 10th ed (2014).

ISBN-10: 1464164746 / ISBN-13: 9781464164743

## **AP U.S. Government & Politics [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

This course examines the U.S. political system. Students in this course will discuss political ideology, the development of the political system and democratic institutions. Students should, according to the College Board, gain an “analytical perspective on government and politics in the United States.” Furthermore, students will study “both the general concepts used to interpret U.S. politics and the analysis of specific examples” throughout history. The class discussion will require that students acquire a “familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics.” The main emphasis of the course, however, is to be able to apply a basic comprehension of the U.S. political system to contemporary events.

**Required Materials:** American Democracy Now, Fifth Edition, AP Edition ISBN-13: 978-0076788279 or ISBN-10: 007678827X  
Cracking the AP U.S. Government & Politics Exam 2019 ISBN-13: 978-0525567608 or ISBN-10: 0525567607

## **AP U.S. History [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 10-12**

**PREREQUISITE: None**

In AP<sup>®</sup> U.S. History, students investigate the development of American economics, politics, and culture through historical analysis grounded in primary sources, research, and writing. The equivalent of an introductory college-level course, AP<sup>®</sup> U.S. History prepares students for the AP exam and for further study in history, political science, economics, sociology, and law.

Through the examination of historical themes and the application of historical thinking skills, students learn to connect specific people, places, events, and ideas to the larger trends of U.S. history. Critical-reading activities, feedback-rich instruction, and application-oriented assignments hone students’ ability to reason chronologically, to interpret historical sources, and to construct well-supported historical arguments. Students write throughout the course, responding to primary and secondary sources through journal entries, essays, and visual presentations of historical content. In discussion activities, students respond to the positions of others while staking and defending claims of their own. Robust scaffolding, rigorous instruction, relevant material, and regular opportunities for active learning ensure that students can achieve mastery of the skills necessary to excel on the AP exam.

### **Required Materials:**

AP U.S. History requires a college-level U.S. history textbook. Students may use any college-level U.S. history textbook to successfully complete the course. Though students may use any college-level textbook, resources such as page references and scaffolded reading guides are provided in the course to support students who use any of the following texts:

America’s History, 8th ed. James A. Henretta et al. (Bedford, Freeman, & Worth, 2014).

ISBN-10: 1457628937 / ISBN-13: 9781457628931

-OR-

American History: Connecting with the Past, 14th AP ed. Alan Brinkley. (McGraw-Hill, 2011)

ISBN-10: 0076621421 / ISBN-13: 9780076621422

-OR-

America: A Narrative History, 9th ed. George Tindall and David E. Shi (W.W. Norton, 2013)

ISBN-10: 0393912620 / ISBN-13: 9780393912623

Students using other college-level U.S. history texts or older editions will need to identify the appropriate sections of their text to complete each reading assignment.

## **AP World History [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 10-12**

**PREREQUISITE: None**

The first semester of AP World History delves into the history of mankind. Looking back to the prehistoric times, students will develop the connections between the early river valleys, the beginnings of civilizations, and governments. Through this semester, students will be introduced to concepts that will be placed on the AP examination, and will also be given multiple opportunities to practice skills necessary for the AP exam. This specific time will start from the First Agricultural Revolution to the Age of Exploration. The second semester of AP World History is a continuation of semester one, starting with how Europe evolved from the colonies being brought into the New World. This course will



continue to make connections between nations and look at the big picture concepts of the world until present day. This semester will also spend one time preparing specifically for the AP exam. Through review materials and practicing skills needed for the AP exam, students will work on being prepared for the exam.

**Required Materials:**

Bentley, Traditions & Encounters: A Global Perspective on the Past UPDATED AP Edition © 2017, 6e, Student Edition SBN-13: 978-0077504908 or SBN-10: 0076681289

AP World History Prep Plus 2018-2019

SBN-13: 978-1506203379

ISBN-10: 150620337X

## **African-American History [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

Over the course of U.S. history, how have African Americans helped shaped American culture? This African American History course answers that question by tracing the accomplishments and obstacles of African Americans beginning with the slave trade on up to the modern Civil Rights movement. What was it like during slavery, or after emancipation, or during the years of discrimination under Jim Crow? Who were some of the main figures who have shaped African American history? In this course, you'll learn about the political, economic, social, religious, and cultural factors that have influenced African American life, come face to face with individuals who changed the course of history, and explore how the African American story still influences current events today.

## **Anthropology [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 10-12**

**PREREQUISITE: None**

This class is designed to look at both the social and physical areas of anthropology. Topics included will be the nature of culture, the organization of social relations, archeology, human evolution, and the relationships between values and behavior. Attention to the human use of culture in adapting to environments and to language, technology, kinship, and religion as cultural systems. Students will participate in case studies of Western and Non-Western peoples, historic and prehistoric cultures.

**Required materials:** Access to a scanner.

## **Archaeology**

**CREDIT: 0.5**

**GRADE LEVEL: 10-12**

**PREREQUISITE: None**

This course has all of the instructional design features of the Anthropology class and complements and supports this fascinating area of historical inquiry. Archaeology is the scientific study of past human culture and behavior, from the origins of humans to the present. Archaeology studies past human behavior through the examination of material remains of previous human societies. These remains include the fossils (preserved bones) of humans, food remains, the ruins of buildings, and human artifacts—items such as tools, pottery, and jewelry. From their studies, archaeologists attempt to reconstruct past ways of life. Archaeology is an important field of anthropology, which is the broad study of human culture and biology. Archaeologists concentrate their studies on past societies and changes in those societies over extremely long periods of time.

**Required materials:** Access to a scanner.

## **Civics**

**CREDIT: 0.5**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

In this course students will understand the significance of government, law, and politics. They will examine the United States foundational documents and how they shaped the United States government. Students will examine the purposes and functions of federal, state and local government, the justice system, political systems the environment, and the economy. Learners will evaluate their role and civic responsibility to their families, communities, and country including voting and being a productive member of society. Students will get to know leaders and influential people that have championed many causes including civil rights and the environment. Learners will also learn proper ways to interact in society including interpersonal skills and respecting differences in others including disabilities. Learners will follow a step-by-step approach for successfully completing each lesson, which includes textbook reading, interactive activities, supplemental reading, lecture, video clips, and PowerPoint presentations to enhance and reinforce learning. Learners receive frequent feedback from teacher and peers through discussions. By the end of the course students will have a deep understanding of their civic responsibilities as well as the difference one individual can make in society.

### **Contemporary World Issues [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

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

### **Criminology**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Understanding the criminal mind is not easy. Why do certain people commit horrible acts? Can we ever begin to understand their reasoning and motivation? Perhaps. In *Criminology: Inside the Criminal Mind*, you will be given the rare opportunity to climb inside the mind of a criminal and examine the ideas and motivations at work. The mental state of a criminal can be affected by many different aspects of life—psychological, biological, sociological—all of which have differing perspectives and influences. You will investigate not only how these variables affect the criminal mind but also how the criminal justice system remains committed to upholding the law through diligence and an uncompromising process.

### **Geography & World Cultures \*Available as Honors**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Geography and World Cultures offers a tightly focused and scaffolded curriculum that enables students to explore how geographic features, human relationships, political and social structures, economics, science and technology, and the arts have developed and influenced life in countries around the world. Along the way, students are given rigorous instruction on how to read maps, charts, and graphs, and how to create them.

Geography and World Cultures is based on standards from the National Council for History Education (1997), the National Center for History in the Schools (1996), and the National Council for Social Studies (1994) and is aligned to state standards.

Geography and World Cultures is designed as the first course in the social studies sequence. It develops note-taking skills, teaches the basic elements of analytic writing, and introduces students to the close examination of primary documents.

## **History of the Holocaust**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

"Never shall I forget that night, the first night in camp, which has turned my life into one long night, seven times cursed and seven times sealed." Elie Wiesel, a Holocaust survivor, wrote these words about his experiences in a Nazi concentration camp. History of the Holocaust will take you through the harrowing details of anti-Semitism, the power of the Nazi party, the persecution of European Jews and other groups, and the tremendous aftermath for everyone involved in World War II. You'll explore the causes of the Holocaust, the experiences of Jews and other individuals during this time, and what has been done to combat genocide since WWII. "For the dead and the living, we must bear witness."

## **Law & Order**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

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 to 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, we become more informed and responsible citizens in our communities and of our nation.

## **Modern World History since 1600 [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Our online Modern World History from 1600 course, students study the major turning points that shaped the modern world including the Enlightenment, industrialization, imperialism, nationalism, political revolutions, the world wars, the Cold War, decolonization, and globalization. By presenting content from multiple perspectives and through diverse primary and secondary source materials, this course provides students with a solid foundation in the history of the modern era and prepares students to be active and informed citizens of the world.

Through critical reading activities, feedback-rich instruction, and application-oriented assignments, students develop their capacity to conduct research, analyze sources, make arguments, and take informed action. In written assignments, students address critical questions about the history of the modern era. In discussion activities, students respond to diverse opinions, take positions, and defend their own claims. Formative and summative assessments provide students — and teachers — with ample opportunities to check in, review, and evaluate students' progress in the course.

## **Social Problems: A World In Crisis**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

War, crime, poverty, global warming—our world often seems full of dire warnings and predictions. How can we make sense of it all and still dare to step outside each day? Social Problems I: A World in Crisis will explore some of the biggest challenges facing our world today and prepare you to tackle them head-on. You'll learn what led to these social problems, what effects they have on our lives and societies, and what possible solutions exist for solving them.

Whether you want to save the world from the next pandemic or better understand the effects of the media on society, this course will help you develop a plan of action.

## **Sociology [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Why do people disagree on so many big issues? Where do culture wars come from? Maybe you've wondered this as you've looked through your social media feed or read the latest online article about groups fighting over different social issues. Sociology II: Your Social Life takes a powerful look at how social institutions like families, religion, government, and education shape our world and how collective behavior and social movements can create change. Although the reality of the battles isn't always pretty, gaining a clearer picture of the different sides can help you better understand how our lives are shaped by entertainment, social institutions, and social change.

## **Psychology**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Our online Psychology course provides a solid overview of the field's major domains: methods, biopsychology, cognitive and developmental psychology, and variations in individual and group behavior. By focusing on significant scientific research and on the questions that are most important to psychologists, students see psychology as an evolving science. Each topic clusters around challenge questions, such as "What is happiness?" Students answer these questions before, during, and after they interact with direct instruction. The content is based on the American Psychological Association's National Standards for High School Psychology Curricula. The teaching methods draw from the National Science Teachers Association (NSTA) teaching standards.

## **US & Global Economics \*Available as honors**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Our online U.S. and Global Economics course offers a tightly focused and scaffolded curriculum that provides an introduction to key economic principles. The course covers fundamental properties of economics, including an examination of markets from both historical and current perspectives; the basics of supply and demand; the theories of early economic philosophers such as Adam Smith and David Ricardo; theories of value; the concept of money and how it evolved; the role of banks, investment houses, and the Federal Reserve; Keynesian economics; the productivity, wages, investment, and growth involved in capitalism; unemployment, inflations, and the national debt; and a survey of markets in areas such as China, Europe, and the Middle East.

U.S. and Global Economics is designed to fall in the fourth year of social studies instruction. Students perfect their analytic writing through a scaffolded series of analytic assignments and written lesson tests. They also apply basic mathematics to economic concepts. Students read selections from annotated primary documents and apply those readings to the course content.

The content is based on standards from the National Council for History Education (1997), the National Center for History in the Schools (1996), and the National Council for Social Studies (1994) and is aligned to state standards.

## **US Government & Politics [S1, S2] \*Available as honors**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

U.S. Government and Politics offers a tightly focused and scaffolded curriculum that uses the perspective of political institutions to explore the history, organization, and functions of the U.S. government. Beginning with basic theories of

government, moving to the Declaration of Independence, and continuing to the present day, the course explores the relationship between individual Americans and the governing bodies. It covers the political culture of the country and gains insight into the challenges faced by presidents, congressional representatives, and other political activists. It also covers the roles of political parties, interest groups, the media, and the Supreme Court. U.S. Government and Politics is designed to fall in the fourth year of social studies instruction. Students perfect their analytic writing through a scaffolded series of analytic assignments and written lesson tests. Students read annotated primary documents and apply those documents to the course content. The content is based on standards from the National Council for History Education (1997), the National Center for History in the Schools (1996), and the National Council for Social Studies (1994) and is aligned to state standards.

### **US History [S1, S2] \*Available as Honors**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Our online U.S. History course traces the nation's history from the pre-colonial period to the present. Students learn about the Native American, European, and African people who lived in America before it became the United States. They examine the beliefs and philosophies that informed the American Revolution and the subsequent formation of the government and political system. Students investigate the economic, cultural, and social motives for the nation's expansion, as well as the conflicting notions of liberty that eventually resulted in civil war. The course describes the emergence of the United States as an industrial nation and then focuses on its role in modern world affairs.

Moving into the 20th and 21st centuries, students probe the economic and diplomatic interactions between the United States and other world players while investigating how the world wars, the Cold War, and the "information revolution" affected the lives of ordinary Americans. Woven through this chronological sequence is a strong focus on the changing conditions of women, African Americans, and other minority groups.

The course emphasizes the development of historical analysis skills such as comparing and contrasting, differentiating between facts and interpretations, considering multiple perspectives, and analyzing cause-and-effect relationships. These skills are applied to text interpretation and in written assignments that guide learners step-by-step through problem-solving activities.

The content is based on standards from the National Council for History Education (1997), the National Center for History in the Schools (1996), and the National Council for Social Studies (1994) and is aligned to state standards.

### **US History since the Civil War [S1, S2] \*Available as Honors**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

This course traces the nation's history from the end of the Civil War to the present. It describes the emergence of the United States as an industrial nation, highlighting social policy as well as its role in modern world affairs. Students evaluate the attempts to bind the nation together during Reconstruction while also exploring the growth of an industrial economy. Moving into the 20th and 21st centuries, students probe the economic and diplomatic interactions between the United States and other world players while investigating how the world wars, the Cold War, and the "information revolution" affected the lives of ordinary Americans. Woven through this chronological sequence is a strong focus on the changing conditions of women, African Americans, and other minority groups. The course emphasizes the development of historical analysis skills such as comparing and contrasting, differentiating between facts and interpretations, considering multiple perspectives, and analyzing cause-and-effect relationships. These skills are applied to text interpretation and in written assignments that guide learners step-by-step through problem-solving activities. The content is based on standards from the National Council for History Education (1997), the National Center for History in the Schools (1996), and the National Council for Social Studies (1994) and is aligned to state standards.

### **US History since the Renaissance [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

World History since the Renaissance covers the development of civilizations around the world from the Renaissance to the present. The course covers major themes in world history, including the development and influence of human-geographic relationships, political and social structures, economic systems, major religions and belief systems, the effects of science and technology, the vital role of the arts, and the importance of trade and cultural exchange. Topics covered in this course include the Reformation and its legacy, the Scientific Revolution, European exploration, the Enlightenment, political revolutions, the rise of nation-states, the industrial era, the spread of imperialism, and the issues and conflicts of the 20th and 21st centuries. Primary source documents, which appear frequently, encourage students to make connections to evidence from the past. Writing skills are honed through a spiraled sequence of short analytic pieces. The content is based on standards from the National Council for History Education (1997), the National Center for History in the Schools (1996), and the National Council for Social Studies (1994) and is aligned to state standards.

### **World History [S1, S2] \*Available as Honors**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

In our online World History course, students learn to see the world today as a product of a process that began thousands of years ago when humans became a speaking, travelling, and trading species. Through historical analysis grounded in primary sources, case studies, and research, students investigate the continuity and change of human culture, governments, economic systems, and social structures.

Students build and practice historical thinking skills, learning to connect specific people, places, events and ideas to the larger trends of world history. In critical reading activities, feedback-rich instruction, and application-oriented assignments, students develop their capacity to reason chronologically, interpret and synthesize sources, identify connections between ideas, and develop well-supported historical arguments. Students write throughout the course, responding to primary sources and historical narratives through journal entries, essays and visual presentations of social studies content. In discussion activities, students respond to the position of others while staking and defending their own claim. The course's rigorous instruction is supported with relevant materials and active learning opportunities to ensure students at all levels can master the key historical thinking skills.

This course is aligned to state standards and the Common Core State Standards for Literacy in Social Studies.

### **World Religions**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

From Taoism, to Islam, to Christianity, religion inevitably affects us all in some way. On one level, religion can help us commune with and honor our spiritual natures, but it can also divide people and create great strife in the world. World Religions: Exploring Diversity will explore the various characteristics of faith and introduce the fundamentals of the major religions, including Judaism, Islam, Christianity, Buddhism, Confucianism, Hinduism, Shintoism, and Taoism. You'll trace how these powerful faiths have influenced cultures over thousands of years and helped to shape the face of humanity. After this course, you'll have a clearer understanding of how religion continues to affect the larger world.

## **ARTS, FAMILY & CONSUMER SCIENCES**

### **Art Appreciation**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Our online Art Appreciation course is a survey of the history of Western visual arts, with a primary focus on painting. Students begin with an introduction to the basic principles of painting and learn how to critique and compare works of



art. Students then explore prehistoric and early Greek and Roman art before they move on to the Middle Ages. Emphasis is placed on the Renaissance and the principles and masters that emerged in Italy and northern Europe. Students continue their art tour with the United States during the 20th century, a time of great innovation as abstract art took center stage. While Western art is the course's primary focus, students will finish the course by studying artistic traditions from Africa, Asia, Oceania, and the Americas. Coverage of each artistic movement highlights historical context and introduces students to key artists that represent a variety of geographic locations. Throughout the course, students apply what they have learned about art critique to analyze and evaluate both individual artists and individual works of art. Art Appreciation is based on national standards developed by the Consortium of National Arts Education Associations, as well as key state standards. It encompasses a variety of skills to enable students to critique, compare, and perhaps influence their own works of art.

## **Art Careers [S1, S2]**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

For every Broadway dancer, every television star, and every pop singer, there are countless people behind the scenes helping to make it happen. Arts Careers introduces students to the skills that are part of many fascinating careers in the arts. Studying the arts creates independent and innovative thinkers and many doors are open to an artist with the proper training.

### **Required Materials:**

- Digital Camera (camera phone, DSLR and other devices with a camera is acceptable)
- Video Camera (camera phone, DSLR and other devices with a camera is acceptable)
- Video software (iMovie and other video editing software is acceptable)

## **Art History**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Art History is a survey of Art throughout time. It introduces art principles and instructs students to look at art within the context of which it was made - its history. Exploration of the cultures that created significant buildings, sculptures, paintings, etc. are a key factor in understanding the importance and relevance of Art. Art History A provides the essential information and focus for this exploration. This course leads students from the drawings and structures of Prehistoric Man, through thousands of years of human creativity and innovation, and concludes with the Renaissance period. In Art History A students will take an exciting journey back through time, and across the globe to discover important works of art and the cultures in which they were made. In this course, innovation and creativity in the world of art will be explained and explored. Key pieces of art will be identified and discussed, and students will have the opportunity to see a variety of cultures and events through the lens of visual art. The course starts with a look at art from the Prehistoric Age. The shift to permanent dwellings is explored next in the Ancient cultures of Mesopotamia and Egypt with the architecture that signals humanity's need to influence the environment. The works of Ancient Greece and Rome are examined along with a look outside Europe to Africa and the Americas. The course ends with a look at Medieval and Renaissance Art, and how new techniques and focus influence art all over the globe.

## **Art in World Cultures [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Who is the greatest artist of all time? Is it Leonardo da Vinci? Claude Monet? Michelangelo? Pablo Picasso? Is the greatest artist of all time someone whose name has been lost to history? You will learn about some of the greatest artists while also creating art of your own, including digital art. We will explore the basic principles and elements of art, learn how to critique art, and examine some of the traditional art of the Americas, Africa, and Oceania in addition to the development of Western art.

## **Basic Drawing**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

In Basic Drawing, students will experiment with several different art materials and tools to see what each tool can do best. Students will explore ordinary things around them to become more observant of the structures and meanings of things which can be seen in their home and community.

Your work will be your own study of the forms, textures, movements, and patterns of the things that you see every day. Each project and each lesson is based on the one before it; so always do the lessons in the order they are given. Be sure to follow the directions exactly regarding which materials, sizes, and subject matter to use for each project. Each lesson will be a study of a new way of drawing. The examples given will show only the method and materials to be used, never the same subject or size as the project assigned. The examples are never to be copied. An example will only show one way of using the technique described. By becoming more observant, by experimenting with new materials, and by exploring a variety of methods, students will continue to grow in artistic skill and enjoyment. Beyond fundamental skills are various levels of creativity. Each lesson provides room for expressing the technical skill learned in a unique, creative way.

### **Required Materials:**

- 1 drawing pencil, 2B
- 1 round hair brush #10
- 1 bottle India Ink, black
- 1 Pilot Varsity Pen, self-contained black ink
- 2 conté crayons: white, black
- 1 Art gum eraser
- 1 white, wax Crayola crayon
- 40 sheets white drawing paper, 9×12
- 5 sheets construction paper, 9×12, black
- 15 sheets grey construction paper, 9×12
- 14 large envelopes, 10 x 13
- 2 sheets white watercolor paper (rough, heavy, stiff)
- 2 sheets rice paper 9 1/2 x12 (soft, translucent)
- 25 sheets newsprint, 9×12
- 1 bottle white glue (obtain locally)

## **Beginning Painting**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

This course introduces students to classical and contemporary painting, techniques and concepts, with emphasis on the understanding of its formal language and the fundamentals of artistic expression. Painting from still life, landscape, and life models from observation will be geared towards realism; at the same time, various other painting styles could be explored. Color theory, linear perspective, compositional structure, figure/ground relationships, visual perception, spatial concepts, and critical thinking skills will all be emphasized. Students will study and research major painting styles and movements in historical context. The hope is that students will use this global approach to develop a "critical eye" in evaluation of contemporary painting. Acrylic and watercolors are the mediums used in this class. The main emphasis of this course is to encourage and nourish individuality and creativity.

### **Required Materials:**

- Chromacryl tube of acrylic paints
- Round brush
- Flat brush
- Watercolor paints
- Set of markers
- Painting paper
- Newsprint paper
- 1-4b pencil
- 7 project cardstock pages



## **Child Development**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

This course is designed to help prepare students for their responsibilities as parents and caregivers of children. Topics include prenatal care, growth and development through age six, teen pregnancy, maternal health, parenting skills, and child guidance.

## **Cosmetology I [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

We all want to look our best, but did you know there is actually a science behind cutting your hair and painting your nails? In Cosmetology: Cutting-Edge Styles, you will learn all about this often entertaining field and how specialized equipment and technology are propelling our grooming into the next century. Just like all careers, cosmetology requires certain skills and characteristics, all of which are thoroughly explored in this course. You will learn about various beauty regimes related to hair, nails, skin, and spa treatments, and discover how to create your own business model quickly and efficiently while still looking fabulous, of course.

## **Cosmetology II**

***CREDIT: 0.5***

***GRADE LEVEL: 10-12***

***PREREQUISITE: Cosmetology I***

Helping people put their best face forward is a growing, vibrant industry which needs skilled and personable professionals well-versed in the latest trends and technological advances. In Cosmetology 2: The Business of Skin and Nail Care, experience what the day-to-day life of a cosmetologist is like. You will discover that cosmetology is much more than knowing and applying techniques. Additionally, you will explore skin care and facials, learn how to give manicures and pedicures and how to apply artificial nails, and gain an understanding of different hair removal techniques. Discover the next steps towards launching a rewarding and creative career in cosmetology.

### **Required Materials:**

A computer with: Internet access, a word processing program and a slide-show program

A camera with sound & video recording —a cell phone camera is fine

Materials for Basic Manicure & Pedicure, Nail Enhancement, Facial Materials, Eyebrow Materials & Makeup Application Materials

Resume & Portfolio Materials:

Copies of your diplomas, certificates, and awards

Photos from practice services you have performed

Letters of reference or teacher recommendations

## **Culinary Arts - Intro [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Food, glorious food! It both nourishes and satisfies us, and it brings people together through preparation, enjoyment, and celebration. If you've ever wanted to learn more about cuisine and how your creativity and appreciation can be expressed by preparing food, Introduction to Culinary Arts is perfect for you. Learn the fundamentals of a working kitchen, and explore what it takes to develop real talent as a chef. Enhance your knowledge of the endless varieties of food, and discover the possibilities that the many spices can bring. Learning more about food preparation will certainly

make everything you prepare taste better while giving you the ability to bring people together through the joy of eating.

**Required Materials:** Access to cooking supplies, appliances, and ingredients.  
Device to take photos and videos

### **Culinary Arts II Baking, Pastries & More [S1, S2]**

**CREDIT: 0.5**

**GRADE LEVEL: 10-12**

**PREREQUISITE: Culinary Arts I**

Whether you aspire to be a world-class chef or just want to learn the skills needed to create your own dishes, Culinary Arts 2 will help you build a strong foundation and grow your knowledge of this exciting industry. In this course, you will explore baking and desserts, learn how to prepare proteins, and study nutrition and safety in the kitchen. You will also enhance your understanding of sustainability in the food industry, learn to prepare meals from a global perspective, and dissect the business of cooking, from managing a kitchen to successfully running a catering company. Discover the delights that await you on this delicious culinary adventure.

**Required Materials:** Access to cooking supplies, appliances, and ingredients.  
Device to take photos and videos

### **Early Childhood**

**CREDIT: 0.5**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

As children, we see the world differently than we do as teenagers and adults. It is a world full of magical creatures and strange, exciting things. But what makes childhood such a wondrous time of learning and exploration? What can caregivers do to encourage this? In Early Childhood Education, you will learn more about understanding the childhood experience. Learn how to create interesting lessons and stimulating learning environments that provide a safe and encouraging experience for children. Discover how to get children excited about learning and, just as importantly, to feel confident about their abilities. Early childhood teachers have the unique opportunity to help build a strong base for their young students' life-long education.

### **Guitar I [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

Have you ever dreamed of playing the guitar? Whether you love music, want to play guitar for your family and friends, or desire to be a music star, this course is a great place to start. No prior music experience is needed. You will learn the fundamentals of music and the basic skills necessary to play a wide variety of music styles. Student guides, Carlos and Summer, will guide you through each step of this journey towards becoming a skilled guitarist and musician.

**Note:** Course must be taken on 18 week schedule.

**Required Materials:** Guitar and recording device to submit videos of yourself playing guitar

### **Fashion & Interior Design [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

Do you have a flair for fashion? Are you constantly redecorating your room? If so, the design industry might just be for you! In this course, you'll explore what it is like to work in the industry by exploring career possibilities and the

background that you need to pursue them. Get ready to try your hand at designing as you learn the basics of color and design then test your skills through hands-on projects. In addition, you'll develop the essential communication skills that build success in any business. By the end of the course, you'll be well on your way to developing the portfolio you need to get your stylishly clad foot in the door of this exciting field. Students will need a sewing machine to complete this course. Students in this course have 1 or more units that emphasize the use of sewing tools and hands-on use of tools of the trade. Students must have use of a sewing machine and basic sewing supplies; including but not limited to fabric, needle, thread, scissors, fabric shears, tape measure, thread, and bobbin. It may also be helpful to have a sketchpad. Purchase of these materials is the responsibility of the student and must be considered and discussed with parents/guardians prior to enrolling in the course. The successful Fashion & Design students will gain hands-on practice creating an outfit, or at least 1 garment piece using the sewing tools/supplies.

**Required Materials:** Sewing machine and basic sewing supplies, including but not limited to fabric, needle, thread, scissors, fabric shears, tape measure, thread, and bobbin. It may also be helpful to have a sketchpad.

## **Photojournalism**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

A powerful image can tell an eloquent story without words. Students in Photojournalism will be introduced to some of the pioneers who set the standards for this unique way of storytelling. As they study the principal types of photojournalism and the ethical responsibilities a photojournalist has behind the lens, students will develop their own storytelling skills through their writing and their photographs.

**Required Materials:** Digital camera

**Optional Materials:** Tripod, lenses, lights

## **Music Appreciation [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Our online Music Appreciation course is a streamlined course that introduces student to the history, theory, and genres of music, from the most primitive surviving examples, through the classical to the most contemporary in the world at large. The course is offered in a two-semester format: The first semester covers primitive musical forms, classical music, and American jazz. The second semester presents the rich modern traditions, including: gospel, folk, soul, blues, Latin rhythms, rock and roll, and hip-hop.

The course explores the interface of music and social movements and examines how the emergent global society and the Internet is bringing musical forms together in new ways from all around the world.

## **Real World Parenting [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Do you love children? Maybe you dream of being a parent someday. But perhaps you are also asking yourself, just how, exactly, do you learn to parent? Learning how to care for children while teaching them confidence and accountability is not an easy feat. In Real-World Parenting, you'll learn that being a parent is much more than simply feeding, bathing, and protecting a child. Creating a positive environment, nurturing, fostering education, and serving as a role model are all critical aspects as well. You'll learn how to be a positive force in the development of your future children as well as others around you.

## **Theater, Cinema & Film Production [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

**PREREQUISITE: None**

Lights! Camera! Action! Let's explore the enchanting world of live theater and its fascinating relationship to the silver screen. In Theater, Cinema, and Film Production, you'll learn the basics of lighting, sound, wardrobe, and camerawork while examining the magic that happens behind all the drama. Delve into the glamorous history of film and theater, and examine the tremendous influence these industries have had on society and culture over the years. During this unit, you'll discuss and analyze three classic American films—Casablanca, Singin' in the Rain, and The Wizard of Oz—to help you learn how to critique and appreciate some of the most famous dramas of all time.

## **BUSINESS & MARKETING**

### **Accounting [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

Accounting I examines how to make decisions about planning, organizing, and allocating resources using accounting procedures. Throughout the course, students focus on double-entry accounting; methods and principles of recording business transactions; the preparation of various documents used in recording revenues, expenses, assets, and liabilities; and the preparation of financial statements.

This course allows students to explore careers in accounting while learning skills applicable to any professional setting. Students will engage in project-based activities such as analyzing financial statements; implementing the accounts payable and accounts receivable process; and determining payroll expenses and taxes. Active learning ensures that students continually focus on the technical and interpersonal skills necessary to prepare them for workplace. In addition, students will evaluate the roles and qualifications required for specific accounting careers so they can identify opportunities of interest to them.

Accounting I is a full-year intermediate Career and Technical Education course applicable to programs of study in the Finance or Business Management and Administration career clusters. This course is built to state and national CTE standards. Students who successfully complete the course will be prepared to pursue certifications such as Associate in Regulation and Compliance, Certified Management Accountant, or Certified Quality Auditor.

### **Advertising & Sales Promotion [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

What comes to mind when you think of 'marketing'? Perhaps a familiar television jingle plays in your head? Or maybe you think of those irritating sales phone calls? There's no denying the sheer magnitude and power of the marketing industry. Every year companies spend approximately \$200 billion promoting their products and services—and that's just in the United States alone! You may be familiar with being on the receiving end marketing, but what's it like on the other side? In Advertising and Sales Promotions, you'll see how these marketing campaigns, Anim ads, and commercials are brought to life and meet some of the creative folks who produce them. You'll learn about different marketing career opportunities and discover ways to be part of this exciting, fast-paced industry.

**Required Materials:** A digital camera or camera phone

### **Business Applications**

**CREDIT: 0.5**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

Business Applications prepares students to succeed in the workplace. Students begin by establishing an awareness of the roles essential to an organization's success, and then work to develop an understanding of professional communications and leadership skills. In doing so, students gain proficiency with word processing, email, and presentation management software.

This course allows students to explore careers in business while learning skills applicable to any professional setting. Through a series of hands-on activities, students will create, analyze, and critique reports, letters, project plans, presentations, and other professional communications. Regular engagement in active learning ensures students can continually refine the skills necessary to prepare them for work. In addition, students will evaluate the qualifications required for specific careers so they can identify opportunities that are of interest to them.

Business Applications is an introductory level Career and Technical Education course applicable to programs of study in business, management, and administration; information technology; and other career clusters. This course is built to state and national standards. Students who successfully complete the course can go on to obtain the Microsoft® Office Specialist: Microsoft® Office Word certification.\*

### **Entrepreneurship [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

What does it really take to own your own business? Does the sound of being your own boss make you feel excited or anxious? Either way, Entrepreneurship: Starting Your Business will get you started in the right direction. This course explains the ins and outs of such an enterprise, giving you the confidence needed to be your very own boss. You will discover what is needed to operate a personal business from creating a plan, generating financing, and pricing products to marketing services and managing employees. If you've ever dreamed of being a true entrepreneur but feel daunted by the prospect, this is your chance to learn all you need to know.

**Required Materials:** Video camera or recording device for their projects

### **International Business**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Imagine meeting with suppliers at an office in Europe while calling your sales room that's back in Asia. Imagine investing in foreign markets and visiting partners in exotic locales. With the evolution of current technology, our world is more connected than ever before, and the business community today is larger than ever. International Business: Global Commerce in the 21st Century will demonstrate just how you can gain the knowledge, skills, and appreciation to live and work in the global marketplace. You will begin to understand how both domestic and international businesses are affected by economic, social, cultural, political, and legal factors and what it takes to become a true manager of a global business in the 21st century.

### **Principles of Business, Marketing & Finance**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Description forthcoming.

# COMPUTERS & TECHNOLOGY

## Animation [S1, S2]

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

Do you wonder what it would be like to create the next blockbuster animated movie or do you want to make the next big video game? Do you have an eye for drawing, technology, and timing? If so, Animation is the course for you! You will learn how to use animation tools to conceptualize and bring your creations to life. You'll learn the ins and outs of creating 2D and 3D animation, from start to finish. You'll even begin working on our own design portfolio and get hands on experience with creating your own animation projects. Learning about Animation could lead to a thriving career in the growing world of technology and animation.

**Note:** Course not compatible with Chromebook, need to use PC/Mac. Additional software installation required, below:

### **Required Materials:**

The following program will need to be downloaded for use during the course:

- Stop Motion Studio App

The following free, cross-platform programs will need to be downloaded for use during the course (programs will run on Windows XP and higher, Linux and Mac computers):

- GIMP (GNU Image Manipulation Program)
- Tupi 2D Magic
- Blender
- DaVinci Resolve

### **Required Computer System Requirements:**

- 2 GB of RAM
- 32-bit dual core
- 2Ghz CPU
- An OpenGL 2.1 compatible graphics card or chip

### **Recommended Items and Computer System Requirements:**

- Smartphone or tablet computer
- Computer with keyboard that includes number pad
- 64-bit quad core CPU
- 8 GB of RAM
- HD display
- Three-button mouse
- OpenGL 3.2 compatible graphics card with 2 GB of RAM

## C++ Programming

**CREDIT: 0.5**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

This course teaches students to use problem-solving skills involving full-code examples to demonstrate how and why to apply programming concepts while using C Plus Plus. Programming exercises strengthen student understanding of program design. Students will walk through the stages of Input, Output, Problem Analysis, and Algorithm Design to illustrate key concepts.

## Coding I: Introduction to Programming [Sem 1, Sem 2]

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 6-12**

**PREREQUISITE: None**

Have you ever wanted to create your own web page or wondered how your favorite websites were built? Maybe you want to know more about how computers and technology are affecting the world around us. In Coding 1a: Introduction to Programming, you will explore the role technology plays in our lives as well as study the fundamentals of computer science, review hardware and software, and learn how the internet functions. You will also discover how

to create and build your own website using HTML and CSS and learn basic and complex commands and sequences as you become familiar with programming languages like JavaScript and Python Programming. This course also covers data collection methods, access rights, protocols, and security.

**Required Materials:**

- Students will need to create a free account for the following sites: <https://www.pythonanywhere.com> and [/trello.com](https://trello.com)
- Students will use the following site to create flowcharts: <https://www.draw.io/>
- They can interact with these websites through any typical web browser.

## **Computer Applications**

**CREDIT: 0.5**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

Computer Applications provides an introduction to software applications that prepares students to succeed in the workplace and beyond. Students will develop an understanding of professional communications and leadership skills while gaining proficiency with word processing, email, and presentation management software. Students will also be able to demonstrate digital literacy through basic study web publishing and design, spreadsheets and database software.

This course allows students to explore careers in the fields of business and information technology while learning skills applicable to any professional setting. Through a series of hands-on activities, students will create, analyze, and critique reports, letters, project plans, presentations, and other professional communications. Regular engagement in active learning ensures students can continually refine the skills necessary to prepare them for work. In addition, students will evaluate the qualifications required for specific careers so they can identify opportunities that are of interest to them.

Computer Applications is an introductory level Career and Technical Education course applicable to programs of study in Business Management and Administration, Information Technology, and other career clusters. This course is built to state and national standards.

**Required Materials:** Business productivity-type software, such as Microsoft Office

## **Computer Basics**

**CREDIT: 0.5**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

Computers have not only transformed the workplace, but have also become the method of delivery for education. Knowing some simple skills, such as keyboarding and the use of typical office software, will make their education much more productive. This course is designed to teach keyboarding to the level of proficiency needed to communicate successfully online. This course also teaches the use of word processing, drawing, spreadsheet, presentation, and Internet software. Finally, the capabilities, ethics, safety, and rules for Internet use are introduced. After taking this course, students should be able to use the computer productively for their school, work, and everyday lives. In addition, you will learn how to use productivity and collaboration tools, such as G Suite by Google Cloud to create word processing documents, spreadsheets, surveys and forms such as personal budgets and invitations.

## **Concepts of Engineering and Technology [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

What if you could do the impossible? Engineers understand a lot of things, but the word impossible definitely isn't one of them. Through Concepts of Engineering and Technology, you'll learn how the momentum of science is continually propelling engineers in new directions towards a future full of insight and opportunity. This course explores the different branches of engineering and how problem-solving, sketching, collaboration, and experimentation can change



the very fiber of our human lives. This ever-increasing knowledge can also lead to serious ethical dilemmas and the need to discuss where the boundaries of science lie (or even if there should be boundaries). By examining astounding engineering feats and complex ongoing issues, you, too, will begin to question whether the word impossible really exists.

## **Cybersecurity [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

We depend more and more on the technologies we interact with every day, and we put more and more of our personal data out there online. Can all of that data really be kept "secret"? We all need to know more about how to protect our personal information, especially given how much we rely on and use our network devices and media. You'll learn about the various parts of your computer, how they work together, and how you can manipulate them to keep your data safe. You'll also dive into the tools, technologies, and methods that will help protect you from an attack and discover the many opportunities in the rapidly growing field of cybersecurity.

### **Required Materials:**

- Slide-show presentation program
- Word processing program

**Software:** Virtual Box: <https://www.virtualbox.org/wiki/downloads>

In order to run VirtualBox on your machine, you need:

- CPU: Recent Intel or AMD processor
- Memory: 2+GB RAM
- Hard disk: About 4GB free hard disk space
- Supported Operating System: Windows, Mac OS X, Linux, Solaris and OpenSolaris.

### **Other Materials**

- USB memory stick (Recommended to be at least 4 GB)

## **Digital Photography I**

**CREDIT: 0.5**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

Have you ever wondered how professional photographers manage to take such sensational pictures? How are they able to find just the right way to capture an image or moment in time? Perhaps you've even wondered why your own pictures don't meet that standard. Digital Photography I: Creating Images with Impact! will answer these questions and help you understand more about the basics of photography. Learning about aperture, shutter speed, lighting, and composition is key for any serious photographer and will help you gain the confidence and knowledge you need to become one. You will not only follow photography through its history but also gain a basic understanding of camera functions, techniques and what it takes to shoot quality portraits, close-ups, action shots, and landscapes.

### **Required Materials:**

Manual camera or digital camera with manual settings (the camera needs to allow for the mode, shutter speed, and aperture to be adjusted)

A Smartphone may be used for most required tasks, however, appropriate applications will need to be installed to allow the student to make the necessary adjustments to the camera mode, shutter speed, and aperture.

Tripod (or necessary item(s) to create a stable foundation such as a table)

Reflector (white paper, poster board, sheets, or a wall can also serve as a reflector)

Image editing software

Access to a slideshow application, such as PowerPoint

## **Digital Photography II**

**CREDIT: 0.5**

**GRADE LEVEL: 10-12**

**PREREQUISITE: Digital Photography I**

In today's world, we are surrounded by images. We are continually seeing photographs as they appear in advertisements, on websites, in magazines, and on billboards; they even adorn our walls at home. While many of these images have been created by professional photographers, it is possible for your photos to take on a more professional look after you discover how to increase your creative potential. In *Digital Photography II: Discovering Your Creative Potential*, you will examine various aspects of the field including specialty areas, ethics, and famous photographers throughout history. You will also learn how to effectively critique photographs so you can better understand composition and go on to create more eye-catching photographs on your own.

**Required Materials:**

Manual camera or digital camera with manual settings (the camera needs to allow for the mode, shutter speed, and aperture to be adjusted)

A Smartphone may be used for most required tasks, however, appropriate applications will need to be installed to allow the student to make the necessary adjustments to the camera mode, shutter speed, and aperture.

Tripod (or necessary item(s) to create a stable foundation such as a table)

Reflector (white paper, poster board, sheets, or a wall can also serve as a reflector)

Image editing software

Access to a slideshow application, such as PowerPoint

## **Game Design I [S1, S2]**

**CREDIT: 0.5**

**GRADE LEVEL: 11-12**

**PREREQUISITE: None**

Are you a gamer? Do you enjoy playing video games or coding? Does the idea of creating and designing your own virtual world excite you? If so, this is the course for you! Tap into your creative and technical skills as you learn about the many aspects involved with designing video games. You will learn about video game software and hardware, various gaming platforms, necessary technical skills, troubleshooting and internet safety techniques, and even the history of gaming. And to top it all off, you'll even have the opportunity to create your very own plan for a 2D video game! Turn your hobby into a potential career and go from simply being a player in a virtual world to actually creating one.

**Note:** Course not compatible with Chromebook, need to use PC/Mac. Additional software installation required.

## **Game Design II [S1, S2]**

**CREDIT: 0.5**

**GRADE LEVEL: 12**

**PREREQUISITE: Game Design I**

We live in a technologically-advanced world where virtual reality and video games play a major role. Have you ever thought about designing your own video game? By signing up for Game Design 2, you will learn the skills needed to conceptualize, design, and fully create your very own video game. Explore various video game software and hardware, sharpen your coding skills, learn about game storylines, player progression, and algorithmic decision making. Learn to analyze player goals, actions, rewards, and challenges, among many other game play components. Utilize the 21st century skills of creativity, critical thinking, communication, collaboration, and technical expertise. When you sign up for Game Design 2, you are putting yourself at the forefront of a future in technology.

**Note:** Course not compatible with Chromebook, need to use PC/Mac. Additional software installation required.

**Required Materials:**

Slideshow program

Word processing program

Unity LTS Release 2017.4.0f1

OS: Windows 7 SP1+, 8, 10, 64-bit versions only; Mac OS X 10.9+. Server versions of Windows & OS X are not tested.

GPU: Graphics card with DX10 (shader model 4.0) capabilities.

Timing device (smartphone, stopwatch, or kitchen timer)

Photo and video equipment

Digital camera, a phone with a camera or a computer camera

## **Graphic Design**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Graphic Design is an introduction to elements of design, spatial relationships, typography and imagery as they apply to practical visual solutions for self-promotion, resumes, logo design, Web design, and sequential systems. In this course, the student explores the basic foundations of design through a series of visual projects that explore the principles and elements of design. Students will work both with analog and digital media as they explore two-dimensional and three-dimensional design along with color theory. This course will help develop and explore a student's ability to communicate visually.

In each lesson students acquire new skills, which take some effort. Beyond fundamental skills are various levels of creativity. Each lesson provides room for a student to express the technical skill learned in his or her own creative way.

## **Information Technology Application (MOS)**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Our online Information Technology Applications course prepares students to work in the field of Information Technology. Students will be able to demonstrate digital literacy through basic study of computer hardware, operating systems, networking, the Internet, web publishing, spreadsheets and database software. Through a series of hand-on activities, students will learn what to expect in the field of Information Technology and begin exploring career options in the field.

Information Technology Applications is an introductory level Career and Technical Education course applicable to programs of study in information technology as well as other career clusters. This course is aligned with state and national standards. Students who successfully complete the course will be prepared to pursue the Microsoft® Office Specialist certifications in Microsoft Word, Microsoft Excel and Microsoft Access, as well as IC3 certification.

***Required Materials:*** Business productivity-type software, such as Microsoft Office

# **HEALTH OCCUPATIONS & PE**

## **Exercise Science**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

This course takes an in-depth examination of the effects of exercise on the body. Through this course, students will learn basic anatomy, biomechanics, and physiology, as well as proper principles and techniques to designing an effective exercise program. The study of nutrition and human behavior will also be integrated into the course to enhance the students' comprehension of this multifaceted subject.

## **First Aid**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

In this course, students learn and practice first aid procedures for a variety of common conditions, including muscular, skeletal, and soft tissue injuries. In addition, students learn how to appropriately respond to a variety of emergency situations. They also learn the procedures for choking and CPR for infants, children, and adults. In addition to emergency response, students will explore personal, household, and outdoor safety, and disaster preparedness.

## **Health [S1, S2]**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

In this class students acquire skills, fitness, attitude, and knowledge to lead a healthy life. Health A focuses on the impact of personal decisions and healthy well-being. Topics include: peer pressure, self-esteem, nutrition, drugs, and alcohol. To lead a healthy life, a person must have an understanding of the impact of their choices, how to reject peer pressures, and the effects of nutrition. Teens face a difficult transition into young adulthood and this course helps them have an understanding of these changes. This course offers information, suggestions, and examples to help guide a young teen into adulthood with the necessary information. Students will complete writing projects that allow them to express their feelings and thoughts regarding pressures, nutrition, and exercise.

\*Health B (Sem 2) is more aligned with health curriculum taught in district.

## **Health & Personal Wellness**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

This comprehensive health course provides students with essential knowledge and decision-making skills for a healthy lifestyle. Students will analyze aspects of emotional, social, and physical health and how these realms of health influence each other. Students will apply principles of health and wellness to their own lives. In addition, they will study behavior change and set goals to work on throughout the semester. Other topics of study include substance abuse, safety and injury prevention, environmental health, and consumer health.

## **Health Careers**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

In Health Careers 1, students explore a variety of career options related to the health care field, including medicine, nursing, physical therapy, pharmacy, dental careers, sports medicine, personal training, social work, psychology, and more. Students will learn about various options within each field, what each of these jobs entails, and the education and knowledge required to be successful. In addition, they will focus on basic job skills and information that would aid them in health care and other career paths.

## **Health Science I: The Whole Individual [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

We know the world is filled with different health problems and finding effective solutions is one of our greatest challenges. How close are we to finding a cure for cancer? What's the best way to treat diabetes and asthma? How are such illnesses as meningitis and tuberculosis identified and diagnosed? Health Sciences I: The Whole Individual provides the answers to these questions and more as it introduces you to such health science disciplines as toxicology, clinical medicine, and biotechnology. Understanding the value of diagnostics and research can lead to better identification and treatment of many diseases, and by learning all the pertinent information and terminology you can discover how this amazing field will contribute to the betterment human life in our future.

**Required Materials:** A video camera / recording equipment

## **Health Science II: Patient Care & Medical Services [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 10-12**

**PREREQUISITE: Health Science I**

Are you looking for a job that's challenging, interesting, and rewarding? These three words describe many of the different careers in health care, and Health Sciences II: Patient Care and Medical Services will show you how to become part of this meaningful vocation. Promoting wellness, communicating with patients, and understanding safety in the workplace are just a few of the essential skills you will learn, all the while becoming familiar with some of the more prominent areas in the field, such as emergency care, nursing, infection control, and pediatrics. You'll learn about some of the inherent challenges faced by this age-old profession and how you can become a significant part of the solution.

**Required Materials:** A video camera / recording equipment

## **Health Science: Nursing [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

Nursing is an in-demand career, perfect for someone looking for a rewarding and challenging vocation in the healthcare sector. With a strong focus on patient care, a nurse must be skilled in communication, promoting wellness, and understanding safety in the workplace. In Health Science II Nursing, you will explore communication and ethics, anatomy and physiology, and the practice of nursing. Learn how to build relationships with individuals, families, and communities and how to develop wellness strategies for your patients. From emergency to rehabilitative care to advances and challenges in the healthcare industry, discover how you can launch a fulfilling career providing care to others.

**Required Materials:** A video camera / recording equipment

- Computer with word processing program like MS Word, Excel-type program, and slide show program like PowerPoint
- Computer with access to internet
- Brochure maker software (optional)
- Video Recording device: smartphone, digital camera with audio, computer camera, or any device that can record both video and sound.
- First aid kit and supplies:
  - Alcohol and cotton swabs or alcohol wipes
  - Syringe or object to mimic syringe (pencil)
  - Bandage materials: sterile gauze, tape, large bandages
  - Space blanket
  - Antiseptic cream/gel
  - Cold pack
  - Surgical Gloves
  - Surgical Gown (or clothing that is similar)
  - Thermometer
  - Bathroom scale
  - Stopwatch or watch with timer or second hand
  - Automated External Defibrillator or a box with two strings attached; the strings will need adhesive bandages or tape on the ends

## **Health Science: Public Health [S1, S2]**

**CREDIT: 0.5**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

What is public health? Who is in control of our health systems and who decides which diseases get funding and which do not? What are the human and environmental reasons for health inequality? Health Science: Public Health answers all of these questions and more. You will study both infectious and non-communicable diseases as well as learn how

we conquer these on a community and global level through various methods, including proper hygiene, sanitation, and nutrition. Explore the role current and future technologies play worldwide as well as consider the ethics and governance of health on a global scale. Discover unique career opportunities, and fascinating real-life situations.

**Required Materials:**

- Computer with access to a word-processing program, access to a slideshow presentation program, with the ability to do screen shots or use the Snipping Tool
- Device with Photo- and Video-Recording
- cell phone, digital camera, or computer camera
- Poster-Board or Large Butcher Paper

## **Intermediate Health Science**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Our online Intermediate Health Science course extends the foundations of the Introduction to Health Science course and covers basic medical science, terminology, procedures, and regulations. This course will help guide students toward choosing a specific career path in health services, including career paths in emergency medicine, nutrition, and alternative medicine.

Using real-life scenarios and application-driven activities, students will extend their knowledge of oral and written communication in health science. Students will have an overview of physiology and medical measurements. Students will also synthesize learning from the Introduction to Health Science course by engaging in analysis of real-life scenarios and deepen their knowledge of various career options. In addition, students will expand their understanding of health and safety systems, how to address emergency situations, and deal with infection control issues.

Intermediate Health Science is an intermediate-level Career and Technical Education course for programs of study in health sciences.

**Required Materials:** A video camera / recording equipment

## **Introduction to Health Science**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Our online Intermediate Health Science course extends the foundations of the Introduction to Health Science course and covers basic medical science, terminology, procedures, and regulations. This course will help guide students toward choosing a specific career path in health services, including career paths in emergency medicine, nutrition, and alternative medicine.

Using real-life scenarios and application-driven activities, students will extend their knowledge of oral and written communication in health science. Students will have an overview of physiology and medical measurements. Students will also synthesize learning from the Introduction to Health Science course by engaging in analysis of real-life scenarios and deepen their knowledge of various career options. In addition, students will expand their understanding of health and safety systems, how to address emergency situations, and deal with infection control issues.

Intermediate Health Science is an intermediate-level Career and Technical Education course for programs of study in health sciences.

**Required Materials:** A video camera / recording equipment

## **Introduction to Nursing I**

***CREDIT: 0.5***

***GRADE LEVEL: 10-12***

***PREREQUISITE: None***

This two semester course introduces students to the field of nursing. In the first semester students will learn about the history and evolution of nursing, education and licensure requirements, career path options, and nursing responsibilities. Students will also focus on foundational information such as basic anatomy, physiology, medical terminology, pharmacology, first aid, and disease prevention. In semester two students will examine various nursing

theories, as well as focus on the nursing process, including assessment, diagnosis, and treatment options. Students will also learn about professional and legal standards and ethics. Additional skills of communication, teaching, time and stress management, patient safety, crisis management will be included.

**Required Materials:** A video camera / recording equipment

## **Introduction to Nursing II**

**CREDIT: 0.5**

**GRADE LEVEL: 10-12**

**PREREQUISITE: Introduction to Nursing I**

This two semester course introduces students to the field of nursing. In the first semester students will learn about the history and evolution of nursing, education and licensure requirements, career path options, and nursing responsibilities. Students will also focus on foundational information such as basic anatomy, physiology, medical terminology, pharmacology, first aid, and disease prevention. In semester two students will examine various nursing theories, as well as focus on the nursing process, including assessment, diagnosis, and treatment options. Students will also learn about professional and legal standards and ethics. Additional skills of communication, teaching, time and stress management, patient safety, and crisis management will be included.

## **Life Skills**

**CREDIT: 0.5**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

This course allows students to explore their personality type and interests, as well as refine important skills that will benefit them throughout their lives, including personal nutrition and fitness skills, time & stress management, communication & healthy relationships, goal setting, study skills, leadership and service, environmental and consumer health, and personal finances. In addition, students will explore possible colleges and careers that match their needs, interests, and talents.

## **Medical Terminology - DUAL CREDIT Madison College, 10-501-101**

**CREDIT: 0.5 credit HS and 3 credits Madison College**

**GRADE LEVEL: 11-12**

**PREREQUISITE: Compass test scores of: Pre-Alg 55, Reading 80, Writing 70 or comparable class equivalents**

Focuses on the component parts of medical terms: prefixes, suffixes and word roots. Students practice formation, analysis and reconstruction of terms. Emphasis is on spelling, definition and pronunciation. Introduction to operative, diagnostic, therapeutic and symptomatic terminology of all body systems, as well as systemic and surgical terminology, is included. Students must take final exam in person at one of the Madison College campus locations. Due to this course being college-level, due dates are firm.

**Materials Required:** Allan Medical Language for Modern Healthcare, 4e textbook w/Connect code (includes ebook): [9781260267099](https://www.cengage.com/ISBN/9781260267099)

## **Medicine**

**CREDIT: 0.5**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

This course provides students with an introduction to healthcare, with emphasis on modern, clinical medicine. Students review basic human anatomy and physiology, studying major health concerns affecting people in the U.S. and the world. This comprehensive, 10-unit course examines such topics as infectious diseases, cancer, traumatic injuries, and healthcare career opportunities.

## **Nutrition**

**CREDIT: 0.5**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**



This course takes students through a comprehensive study of nutritional principles and guidelines. Students will learn about world-wide views of nutrition, nutrient requirements, physiological processes, food labeling, healthy weight management, diet-related diseases, food handling, nutrition for different populations, and more. Students will gain important knowledge and skills to aid them in attaining and maintaining a healthy and nutritious lifestyle.

### **PE Adaptive**

**CREDIT: 0.5**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

This course is designed specifically for students with physical limitations. The content is similar to Fitness Fundamentals 1, but additional modification resources are provided to allow for customized exercise requirements based on a student's situation. In addition, students learn the basic skills and information needed to begin a personalized exercise program and maintain an active and healthy lifestyle. Students research the benefits of physical activity, as well as the techniques, components, principles, and guidelines of exercise to keep them safe and healthy. \*As this course customizes the student's physical activity requirements based on limitations, a doctor's note is requested to outline student's physical abilities and recommended activities. **Enroll on 18-week schedule due to required weekly activity logs.**

### **PE Running**

**CREDIT: 0.5**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

This course is appropriate for beginning, intermediate, and advanced runners and offers a variety of training schedules for each. In addition to reviewing the fundamental principles of fitness, students learn about goals and motivation, levels of training, running mechanics, safety and injury prevention, appropriate attire, running in the elements, good nutrition and hydration, and effective cross-training. While this course focuses mainly on running for fun and fitness, it also briefly explores the realm of competitive racing. Students conduct fitness assessments and participate in weekly physical activity.

**Enroll on 18-week schedule due to required weekly activity logs.**

### **PE Strength Training**

**CREDIT: 0.5**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

This one-semester course by Carone Fitness focuses on the fitness components of muscular strength and endurance. Throughout this course students establish their fitness level, set goals, and design their own resistance training program. They study muscular anatomy and learn specific exercises to strengthen each muscle or muscle group. Students focus on proper posture and technique while training. They also gain an understanding of how to apply the FITT principles and other fundamental exercise principles, such as progression and overload, to strength training.

**Enroll on 18-week schedule due to required weekly activity logs.**

### **PE Walking Fitness**

**CREDIT: 0.5**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

This course helps students establish a regular walking program for health and fitness. Walking is appropriate for students of all fitness levels and is a great way to maintain a moderately active lifestyle. In addition to reviewing fundamental principles of fitness, students learn about goals and motivation, levels of training, walking mechanics, safety and injury prevention, appropriate attire, walking in the elements, good nutrition and hydration, and effective

cross-training. Students take a pre- and post-fitness assessment. Throughout this course students also participate in a weekly fitness program involving walking, as well as elements of resistance training and flexibility.

**Enroll on 18-week schedule due to required weekly activity logs.**

### **Personal Training Career Prep**

**CREDIT: 0.5**

**GRADE LEVEL: 9-12**

**PREREQUISITE: Exercise Science and/or Personal Training Concepts recommended**

This course examines the role and responsibilities of a personal trainer. Students will learn the steps to become a personal trainer, including performing fitness assessments, designing safe and effective workouts, and proper nutrition principles. Concepts of communication and motivation will be discussed, as well as exercise modifications and adaptations for special populations. Students will also examine certification requirements, business and marketing procedures, and concerns about liability and ethics. In addition, throughout the course students will be able to explore various exercises, equipment, and tools that can be used for successful personal training.

**Required Materials:** A video camera / recording equipment

### **Physical Education I**

**CREDIT: 0.5**

**GRADE LEVEL: 9**

**PREREQUISITE: None**

This course focuses on the fundamental components and principles of fitness. The course examines safety guidelines, proper technique, and exercise principles. Students will assess their current level of fitness in relation to the five components of physical fitness: flexibility, cardiovascular health, muscular strength, muscular endurance, and body composition. Students will also learn strategies to help them begin, design, and maintain an exercise program to keep them fit for life.

**Enroll on 18-week schedule due to required weekly activity logs.**

**Optional Materials:** Weights, strength training equipment, and a heart rate monitor are helpful, but not required for this course.

### **Physical Education II**

**CREDIT: 0.5**

**GRADE LEVEL: 10-12**

**PREREQUISITE: Physical Education I**

This course will provide the student an opportunity to create an individualized and personally challenging fitness program that will advance the knowledge, confidence, skills and motivation needed to engage in a lifelong active lifestyle. The student will acquire a working knowledge of physical fitness relative to health and skill related fitness components, set personal goals for each of the fitness components based on a personal assessment of their level of physical fitness. Students will identify health problems that are associated with inadequate fitness levels; identify and evaluate sports, fitness, and leisure activities in relation to personal fitness program; interpret and predict potential safety risks of various sport and fitness activities, and analyze different advertising techniques used to influence the purchase of fitness products and services.

**Enroll on 18-week schedule due to required weekly activity logs.**

**Required Materials:** For skill testing, the student will need masking tape, a yard stick, 3 sticks (drum stick-sized), stopwatch, access to exercise videos, and will need to call or visit a health club or YMCA.

## **INTERDISCIPLINARY**

### **ACT Prep**

**CREDIT: 0.5**

**GRADE LEVEL: 9-12**  
**PREREQUISITE: None**

Course description forthcoming

### **Careers in Criminal Justice [S1, S2]**

**CREDIT: 0.5 per semester**  
**GRADE LEVEL: 9-12**  
**PREREQUISITE: None**

Most of us have watched a sensationalized crime show at one time or another, but do we really know how things work behind those dreaded prison bars? Do we really understand all the many factors in our justice proceedings? The criminal justice system is a very complex field that requires many seriously dedicated people who are willing to pursue equal justice for all. The Careers in Criminal Justice course illuminates what those different career choices are and how the juvenile justice system, the correctional system, and the trial process all work together to maintain social order. Find out more about what really happens when the television show ends and reality begins.

### **Career Planning**

**CREDIT: 0.5**  
**GRADE LEVEL: 9-12**  
**PREREQUISITE: None**

The Career Planning course guides students through the essential elements of the career planning process and the development of a defined career plan. Students will consider the many factors that impact career success and satisfaction. Using a process of investigation, research, and self-discovery, students will acquire the understandings critical to the career planning process. Upon completion of the course, students will have created a practical and comprehensive college or career transition portfolio that reflects their skills and abilities, as well as their interests, values, and goals.

### **College & Career Prep I**

**CREDIT: 0.5**  
**GRADE LEVEL: 9-12**  
**PREREQUISITE: None**

High school students have many questions about the college application process, what it takes to be a successful college student, and how to begin thinking about their careers. In College and Career Preparation I, students obtain a deeper understanding of what it means to be ready for college. Students are informed about the importance of high school performance in college admissions and how to prepare for college testing. They know the types of schools and degrees they may choose to pursue after high school and gain wide exposure to the financial resources available that make college attainable. Career readiness is also a focus. Students connect the link between interests, college majors, and future careers by analyzing career clusters. Students come away from this course understanding how smart preparation and skill development in high school can lead into expansive career opportunities after they have completed their education and are ready for the working world. Students who complete College and Career Preparation I have the basic skills and foundation of knowledge to progress into College and Career Preparation II, the capstone course that provides hands-on information about the transition from high school to college and career. This course is built to the American School Counselors Association National Standards for school counseling programs.

### **College & Career Prep II**

**CREDIT: 0.5**  
**GRADE LEVEL: 9-12**

### ***PREREQUISITE: College & Career Prep I***

High school students have many questions about the college application process, what it takes to be a successful college student, and how to begin thinking about their careers.

College and Career Preparation II builds on the lessons and skills in College and Career Preparation I. The course provides a step-by-step guide to choosing a college. It walks students through the process of filling out an application, including opportunities to practice, and takes an in-depth look at the various college-admission tests and assessments, as well financial aid options.

College and Career Preparation II also instructs students in interviewing techniques and provides career guidance. Students explore valuable opportunities such as job shadowing and internships when preparing for a career. Students who complete this course obtain a deeper understanding of college and career readiness through informative, interactive critical thinking and analysis activities while sharpening their time management, organization, and learning skills that they learned in College and Career Preparation I.

College and Career Preparation II prepares students with the knowledge and skills to be successful in college and beyond. This course is built to the American School Counselors Association National Standards for school counseling programs.

### **Creativity, Activity & Service Learning**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Students will search for, plan, and take part in activities that help them learn how to be active, inquiring, and participating citizens in their communities. The Creative segment of the course will require students to seek out and participate in creative activities that they find enjoyable. The Activity segment of the course will require the student to participate in some type of physical activity, preferably one in their community but the focus is to be active and participate in activities that could be a part of a healthy and active "lifetime" experience. The Service Learning segment will require that the student create or participate in activities that will meet a need in their community AND illustrate the use and extension of the skills and knowledge being learned in their classroom coursework. In addition to logging the required activity and project time and experiences, the course will include units and activities to build the student's knowledge of "what's out there" and what others are doing to build strong communities and be active members of society. \*This course is not available in block format; it is only available for 18 weeks.

### **Ethics**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

The purpose of this course is to help students develop the ability to make reasoned and ethical choices when confronted with the many complex, controversial moral dilemmas faced in today's society. Students will become acquainted with the foundations of ethical thought and theories as well as gain an insight into the process of moral development. Students will also identify typical fallacies in flawed moral arguments. Students will also be given the opportunity, both orally and in writing, to apply the skills they acquire to real life moral dilemmas.

### **Financial Literacy**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

The purpose of this course is to provide students with the essential understandings about managing their money. The focus will be on sources of personal income, saving, and spending patterns. Students will learn such things as how to budget, how to make large purchases, how to invest, and how to minimize taxes.

## **Forensic Science I**

***CREDIT: 0.5***

***GRADE LEVEL: 11-12***

***PREREQUISITE: Biology & Chemistry***

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

## **Forensic Science II**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: Forensic Science I***

Fingerprints. Blood spatters. Gunshot residue. If these things intrigue you rather than scare you, Forensic Science I: Secrets of the Dead may be for you. This course offers you the chance to dive into the riveting job of crime scene analysis. Learn the techniques and practices applied during a crime scene investigation and how clues and data are recorded and preserved. You will better understand how forensic science applies technology to make discoveries and bring criminals to justice as you follow the entire forensic process—from pursuing the evidence trail to taking the findings to trial. By careful examination of the crime scene elements, even the most heinous crimes can be solved.

## **Hospitality & Tourism I: Traveling the Globe**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Think about the best travel location you've ever heard about. Now imagine working there. In the 21st century, travel is more exciting than ever, with people traversing the globe in growing numbers. Hospitality and Tourism: Traveling the Globe will introduce you to a thriving industry that caters to the needs of travelers through managing hotels, restaurants, cruise ships, resorts, theme parks, and any other kind of hospitality you can imagine. Operating busy tourist locations, creating marketing around the world of leisure and travel, spotting trends, and planning tasteful events are just a few of the key aspects you will explore in this course as you locate your own career niche in this exciting field.

## **Hospitality & Tourism II: Hotel & Restaurant Management**

***CREDIT: 0.5***

***GRADE LEVEL: 10-12***

***PREREQUISITE: Hospitality & Tourism I***

If you love working with people, a future in hospitality may be for you. In Part A of Hospitality and Tourism 2: Hotel and Restaurant Management, you will learn about what makes the hotel and restaurant industries unique. Learn about large and small restaurants, boutique and resort hotels, and their day-to-day operations. Evaluate the environment for these businesses by examining their customers and their competition. As well, you will discover trends and technological advances that makes each industry exciting and innovative. In Part A, you can explore a variety of interesting job options from Front Desk and Concierge services to Maître d' and food service.

## **Human & Social Services I [S1, S2]**

***CREDIT: 0.5***

**GRADE LEVEL: 9-12**  
**PREREQUISITE: None**

Those working in the field of social services are dedicated to strengthening the economic and social well-being of others and helping them lead safe and independent lives. In Human and Social Services 1, you will explore the process of helping, body, mind, and family wellness, and how you can become a caring social service professional. If you are interested in an emotionally fulfilling and rewarding career and making a difference in the lives of others, social and human services may be the right field for you.

**Human Resources Principles [S1, S2]**

**CREDIT: 0.5 per semester**  
**GRADE LEVEL: 9-12**  
**PREREQUISITE: None**

Human Resources Principles examines the main functions of human resources management, including planning, recruitment, selection, training, development, compensation, and evaluation. In so doing, the course provides students with the tools to hire, manage, and fire employees. Students will also explore the unique role of human resources in the larger organization.

This course allows students to explore careers in business while learning skills applicable to any professional setting. Through a series of hands-on activities, students will create a recruiting plan, develop a strategy to promote a positive organizational culture, and analyze the impact of globalization on the human resources. Regular engagement in active learning ensures students can continually refine the skills necessary to prepare them for work. In addition, students will evaluate the qualifications required for specific careers so they can identify opportunities of interest to them. Human Resources Principles is a full-year intermediate or capstone Career and Technical Education course applicable to programs of study in the Business, Management and Administration career cluster. This course is built to state and national standards. Students who successfully complete the course will be prepared to pursue certifications such as Associate Professional in Human Resources™, Certified Administrative Manager, or Certified Associate in Project Management (CAPM)®.

**Introduction to Coaching**

**CREDIT: 0.5**  
**GRADE LEVEL: 9-12**  
**PREREQUISITE: None**

This course focuses on the various responsibilities of a coach and the skills needed to successfully fill this important position. Throughout the course, students will explore various coaching models and leadership styles, sports nutrition and sports psychology, as well as safety, conditioning, and cross-training. Students will learn effective communication, problem-solving, and decision making skills. The course will also introduce students to game strategy, tactical strategy, skills-based training, and coaching ethics.

**Introduction to Social Media**

**CREDIT: 0.5**  
**GRADE LEVEL: 9-12**  
**PREREQUISITE: None**

Have a Facebook account? What about Twitter? Whether you've already dipped your toes in the waters of social media or are still standing on the shore wondering what to make of it all, learning how to interact on social media platforms is crucial to surviving and thriving in this age of digital communication. In Introduction to Social Media, you'll learn the ins and outs of such social media platforms as Facebook, Twitter, Pinterest, Google+, and more and how to use them for your benefit—personally, academically, and, eventually, professionally. If you thought social media platforms were just a place to keep track of friends and share personal photos, this course will show you how to use these resources in much more powerful ways.

## **Introduction to Forestry & Natural Resources [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Whether you are a treehugger or not, everyone loves the beauty and serenity of a healthy forest. Our precious woodland species not only supply us with aesthetic beauty but also play a valuable role in nature. Trees uphold a great deal of our wildlife's ecosystem while providing us humans with needed lumber, paper products, and even food. But these forests cannot protect themselves and depend greatly on humans for conservation. In Introduction to Forestry and Natural Resources, you will learn more about this meaningful relationship and how environmental policy, land use, water resources, and wildlife management all factor into current forestry issues. After better understanding these variables and how they affect the majesty of our forests, you may just be hugging these gentle giants after all.

## **Introduction to Military Careers**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Most of us have seen a war movie; maybe it had a hotshot aviator or a renegade private or a daring Special Forces operative. But outside of these sensationalized portrayals, do you really understand how the military works or what it can do for you? The military offers far more career diversity than most people imagine, and Introduction to Military Careers will provide the information you need to gain a broader understanding of how to find the right fit. You will learn about the five military branches—Air Force, Army, Coast Guard, Marines Corps, and Navy—and examine which jobs you might like to pursue. From aviation, to medicine, to law enforcement, the military can be an outstanding place to achieve your dreams in a supportive and well-structured environment.

## **Introduction to Renewable Technologies**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Cars that run on used vegetable oil. Electricity produced from your garbage. A windmill made from spare bicycle parts that pumps water to crops. Energy is life. So, how do we address the world's growing concerns about energy sources? Where will it come from in the future? How can energy be something sustainable, renewable, and accessible? Introduction to Renewable Technologies begins to uncover the development of new energy technologies and explores how recent approaches to generating, storing, and creating this precious resource have evolved. By gaining a larger understanding of this challenge, we, as thoughtful people, can implement real change and unlock the solution needed for a safer, cleaner, and more enduring world.

## **Introduction to Women's Studies**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Maybe you grew up watching movies with female characters like Cinderella, Belle, Snow White, or Ariel. Maybe you've wondered why there are stereotypes about women being bad drivers or ignorant about sports. Maybe you want to know about feminism and the women's movement. The Introduction to Women's Studies: A Personal Journey Through Film can help you answer these questions. Though it focuses on the experience of women, it's appropriate for anyone who wants to learn to critically examine films while learning about the history of the women's movement and how gender, race, and social class influence us. Women have earned their right to stand up and be recognized as equal partners and reap the benefits of their hard work. As the anonymous quote goes, "History is Herstory too."



## **Lord of the Rings [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Hobbits, Orcs, wizards, dashing knights, and powerful elves are all part of the magic created in J.R.R. Tolkien's famously epic tale, *The Lord of the Rings*. For years, the vivid characters within this beloved story could exist only in the readers' minds—until it was adapted into a movie that allowed fans to finally see, through the eyes of Hollywood magic and brilliant technology, the manifestation of these characters onscreen. What does it take to transport these well-known images like Gollum and the Shire from dusty pages to the giant screen? In *The Lord of the Rings: An Exploration of the Films & Its Literary Influences*, you will see first-hand how classic literature can become modern film and bring the fantasy alive for a whole new generation of believers.

## **Multicultural Studies**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Multicultural Studies is a one-semester elective history and sociology course that examines the United States as a multicultural nation. The course emphasizes the perspectives of minority groups while allowing students from all backgrounds to better understand and appreciate how race, culture and ethnicity, and identity contribute to their experiences. Major topics in the course include identity, immigration, assimilation and distinctiveness, power and oppression, struggles for rights, regionalism, culture and the media, and the formation of new cultures. In online Discussions and Polls, students reflect critically on their own experiences as well as those of others. Interactive multimedia activities include personal and historical accounts to which students can respond using methods of inquiry from history, sociology, and psychology. Written assignments and Journals provide opportunities for students to practice and develop skills for thinking and communicating about race, culture, ethnicity, and identity.

The content and skill focus of this interdisciplinary course is based on the National Council for the Social Studies (NCSS) Expectations of Excellence: Curriculum Standards for Social Studies as well as the National Standards for History published by the National Center for History in Schools (NCHS).

## **National Security [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Do you know what it takes to keep an entire nation safe? It not only requires knowledge of how to handle disasters, but it also demands a cool head and tremendous leadership abilities. In *National Security*, you will have the opportunity to learn about the critical elements of the job, such as evaluating satellite information, analyzing training procedures, assessing military engagement, preparing intelligence reports, coordinating information with other security agencies, and applying appropriate actions to various threats. Put yourself in the position of the country's decisive leaders and develop your own knowledge base and skill set necessary to meet the requirements of our nation's most demanding career.

## **Online Literacy**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

This course is focused on building a strong online learner and communicator. The topics range from digital footprints, to online navigation tools, and critical writing and citing skills. A central theme is developing effective online

communication habits and effective written communication skills. The goal is for the student to exit the course as an independent online worker who is able to manage the online learning environment.

### **Paleontology**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

From Godzilla to Jurassic Park, dinosaurs continue to captivate us. In this course, students will learn about the fascinating creatures both large and small that roamed the earth before modern man. Watch interesting videos from experts at The Royal Tyrrell Museum, a leading paleontology research facility, and discover how the field of paleontology continues to provide amazing insight into early life on earth.

### **Peer Counseling**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Are you the person that people come to for advice? Does it seem that your friends always talk to you about their problems? If so, Peer Counseling may be the perfect course for you. It offers ways for you to explore this valuable skill and better understand how it can make a difference in the lives of others. Helping people achieve their personal goals is one of life's most rewarding experiences, and Peer Counseling will show you the way to provide support, encouragement, and resource information. Learn how to observe others as a Peer Counselor as you carefully listen and offer constructive, empathic communication while enhancing your own communication skills.

### **Personal & Family Finance**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

We all know money is important in life. But how important? In fact, the financial decisions you make today may have a lasting effect on your future. Rather than feeling anxious about money feel empowered by learning how to make smart decisions! Personal and Family Finance will begin the conversation around how to spend and save your money wisely, investing in safe opportunities and the days ahead. Learning key financial concepts around taxes, credit, and money management will provide both understanding and confidence as you begin to navigate your own route to future security. Discover how education, career choices, and financial planning can lead you in the right direction to making your life simpler, steadier, and more enjoyable.

### **Philosophy**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Go on an exciting adventure covering over 2,500 years of history! Along the way, you'll run into some very strange characters, like the dirty barefoot man who hung out on street corners pestering everyone with questions, or that eccentric fellow who climbed inside a stove to think about whether he existed. Despite their odd behavior, these and other philosophers of the Western world are among the world's most brilliant and influential thinkers and originated the fundamental ideas of Western civilization. This course asks some of the same questions these great thinkers pondered, so by the time you've "closed the book" on this course, you will better understand yourself and the world around you—from atoms to outer space and everything in between.

### **Principles of Agriculture, Food & Natural Resources [S1, S2]**

***CREDIT: 0.5 per semester***

**GRADE LEVEL: 9-12**  
**PREREQUISITE: None**

Did you know that the world's population could be as high as 11 billion people by the year 2050? And certainly, as our population is growing, so too are our food needs. Even today, millions of people around the world experience hunger. How can we balance growing populations and keeping everyone fed? This is where the importance of agriculture, food, and natural resources comes in! Through the study of Principles of Agriculture: Food and Natural Resources, you will gain a stronger sense of how food ends up on the plate and how we can maximize the foods and natural resources the earth provides. You'll learn more about agriculture's history, animal husbandry, plant science, and natural resources, and you'll be better prepared for your part in sustaining the world.

### **Principles of Public Service**

**CREDIT: 0.5**  
**GRADE LEVEL: 9-12**  
**PREREQUISITE: None**

Ambulances scream along, heading toward those in need. But who makes sure someone is there to answer the 9-1-1 call? When you take a pill, who has determined that drug is safe for the public? All of these duties are imperative to our comfort and success as a society. Public service is a field that focuses on building a safe and healthy world, and in Principles of Public Service: To Serve and Protect you will be introduced to its many different career choices. The protection of society is not only one of our greatest challenges, it also provides ways for people to work together to ensure safety and provide indispensable services. If you've ever contemplated being one of these real-life heroes, now is the time to learn more.

### **Renewable Technologies [S1, S2]**

**CREDIT: 0.5 per semester**  
**GRADE LEVEL: 9-12**  
**PREREQUISITE: None**

Cars that run on used vegetable oil. Electricity produced from your garbage. A windmill made from spare bicycle parts that pumps water to crops. Energy is life. So, how do we address the world's growing concerns about energy sources? Where will it come from in the future? How can energy be something sustainable, renewable, and accessible? Introduction to Renewable Technologies begins to uncover the development of new energy technologies and explores how recent approaches to generating, storing, and creating this precious resource have evolved. By gaining a larger understanding of this challenge, we, as thoughtful people, can implement real change and unlock the solution needed for a safer, cleaner, and more enduring world.

### **Restaurant Management [S1, S2]**

**CREDIT: 0.5 per semester**  
**GRADE LEVEL: 9-12**  
**PREREQUISITE: None**

Have you ever dreamed of running your own eatery? Maybe you've thought of collaborating with a famous chef to create an unforgettable dining experience? What goes on behind the restaurant dining room is a very different world than what goes on out front and really determines the success or failure of an establishment. Restaurant Management will show you exactly what's needed to run a successful restaurant, including ordering supplies, hiring quality workers, maintaining inventory, and managing a large staff. Understanding such concepts as food safety, hygiene, customer relations, marketing, and using a point-of-sale system are crucial to being an effective restaurateur. Whether you are hoping to operate a casual sit-down eatery, oversee a fine dining establishment, or buy a food franchise, this course is the perfect first step.

**Required Materials:**

A digital camera or camera phone

- Ingredients and tools to make a simple food dish of the student's choice
- Stove/grill/oven/microwave

## **Sports Officiating**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

In this course, students will learn the rules, game play, and guidelines for a variety of sports, including soccer, baseball, softball, basketball, volleyball, football, and tennis. In addition, they will learn the officiating calls and hand signals for each sport, as well as the role a sport official plays in maintaining fair play.

## **Sports & Entertainment Marketing**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Whether you are watching a famous athlete make an unbelievable play or witnessing a sensational singing performance, the world of sports and entertainment is never boring. Although it may seem impossible for you to be a part of this glittery world, it's not! The Sports and Entertainment Marketing field offers careers that combine entertainment with traditional marketing, but with a whole lot more glamour. Explore basic marketing principles while delving deeper into the multibillion dollar sports and entertainment industry. Learn how professional athletes, sports teams, and famous entertainers are marketed as commodities and how the savvy people who handle these deals can become very successful. This course will show you exactly how things work behind the scenes of a major entertainment event and how you can be part of the act.

## **Study Skills and Strategies**

***CREDIT: 0.5***

***GRADE LEVEL: 8-12***

***PREREQUISITE: None***

The Study Skills and Strategies course equips students with skills and understandings critical to effective learning. Using a unique approach to the traditional topic of study skills, this course weaves understanding regarding the role of the brain in learning into the instruction of discrete learning skills and strategies. Moving beyond a list of good tips and ideas, the Study Skills and Strategies course will challenge students to develop intentional approaches to learning. They will be required to make connections between the strategies and skills they learn in this course and the implementation of those strategies and skills in their other coursework. Upon completion of the course, students will have learned a variety of specific learning skills and strategies, gained greater understanding of their own learning preferences, and become prepared to develop and implement specific learning and study plans for any academic course or other learning needs.

## **Veterinary Science**

***CREDIT: 0.5***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

Lions and tigers and bears (oh my!) Whether you want to step into the wild side of veterinary medicine or just take care of the furry dogs and cats down your street, Veterinary Science: The Care of Animals will show you how to care for domestic, farm, and wild animals and diagnose their common diseases and ailments. Learn how different veterinary treatments are used and developed to improve the lives of animals and, as a result, the lives of those people who treasure them. If you have always been drawn to the world of our furry, scaly, and feathered friends, this may be just the course for you.

## **Women's Studies Through Film**

***CREDIT: 0.5***

**GRADE LEVEL: 9-12**  
**PREREQUISITE: None**

Maybe you grew up watching movies with female characters like Cinderella, Belle, Snow White, or Ariel. Maybe you've wondered why there are stereotypes about women being bad drivers or ignorant about sports. Maybe you want to know about feminism and the women's movement. The Introduction to Women's Studies: A Personal Journey Through Film can help you answer these questions. Though it focuses on the experience of women, it's appropriate for anyone who wants to learn to critically examine films while learning about the history of the women's movement and how gender, race, and social class influence us. Women have earned their right to stand up and be recognized as equal partners and reap the benefits of their hard work. As the anonymous quote goes, "History is Herstory too..

### **Work Study**

**CREDIT: 0.5**  
**GRADE LEVEL: 9-12**  
**PREREQUISITE: None**

Students will learn through hands-on job experience as well as lessons online. Students will be required to hold a paid job for the duration of the semester earning work-study credit. A supervisor from the student's place of employment must be willing to communicate with the Work Study Coordinator on a regular basis and provide feedback on student performance. Students will also complete weekly lessons and self-evaluation assignments to learn more about finding, getting, and keeping a job, entrepreneurship, and other pertinent topics.

## **WORLD LANGUAGES**

### **AP French Language & Culture [S1, S2]**

**CREDIT: 0.5 per semester**  
**GRADE LEVEL: 10-12**  
**PREREQUISITE: French III (or equivalent) and a teacher/counselor recommendation**

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

**Materials Required Sem 2:**  
Barron's AP French Language and Culture ISBN-13: 978-1438076034 or ISBN-10: 1438076037

### **AP Spanish Language [S1, S2]**

**CREDIT: 0.5 per semester**  
**GRADE LEVEL: 11-12**  
**PREREQUISITE: 3–4 years of Spanish or equivalent native fluency**

AP®Spanish Language students practice perfecting their Spanish speaking, listening, reading, and writing skills. They study vocabulary, grammar, and cultural aspects of the language, and then apply what they learn in extensive written

and spoken exercises. The course addresses the broad themes of Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Families and Communities, and Beauty and Aesthetics. By the end of the course, students will have an expansive vocabulary, a solid, working knowledge of all verb forms and tenses, strong command of other language structures, and an ability to use language in many different contexts and for varied purposes. 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, or literature.

**Required materials:** Any Spanish-English, English-Spanish Dictionary, Microphone

**Optional materials:** Preparing for the Language Examination, 3rd ed. José M. Díaz, Margarita Leicher-Prieto, and Gilda Nissenberg (Prentice Hall, 2007)

ISBN-10: 0131660942 / ISBN-13: 9780131660946

## **American Sign Language I [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

Did you know that American Sign Language (ASL) is the third most commonly used language in North America? American Sign Language 1a: Introduction will introduce you to vocabulary and simple sentences, so that you can start communicating right away. Importantly, you will explore Deaf culture – social beliefs, traditions, history, values and communities influenced by deafness.

### **Required Materials:**

- Computer with Word processing program & Slideshow creation program
- Cell phone, tablet, or computer camera with sound and video recording abilities
- A person, large stuffed animal, or chair
- 2 people (family, friend, classmate) to use in videos and lead a discussion with
- A photo (or even a drawing) of your family
- A hat—silly, crazy, or ordinary is fine
- Blank Paper
- Drawing tools (pencils, markers, etc.)

## **American Sign Language II [S1, S2] Coming Spring 2019**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: ASL I**

The predominant sign language of Deaf communities in the United States, American Sign Language is a complex and robust language. American Sign Language 1b: Learn to Sign will introduce you to more of this language and its grammatical structures. You will expand your vocabulary by exploring interesting topics like Deaf education and Deaf arts and culture.

## **Chinese I [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

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



**Required Materials:** Microphone and audio recording software.

## **Chinese II [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: Chinese I**

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

**Required Materials:** Microphone and audio recording software.

## **Chinese III [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: Chinese II**

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

**Required Materials:** Microphone and audio recording software.

## **French I [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

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



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

**Required Materials:** Microphone and audio recording software.

## **French II [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: French I***

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

**Required Materials:** Microphone and audio recording software.

## **French III [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: French II***

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

**Required Materials:** Microphone and audio recording software.

## **French IV [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: French III***

Students further deepen their understanding of French by focusing on the three modes of communication: interpretive, interpersonal, and presentational. Each unit consists of a variety of activities which teach the students how to understand more difficult written and spoken passages, to communicate with others through informal speaking and writing interactions, and to express their thoughts and opinions in more formal spoken and written contexts. Students should expect to be actively engaged in their own language learning, use correct vocabulary terms and phrases naturally, incorporate a wide range of grammar concepts consistently and correctly while speaking and writing, participate in conversations covering a wide range of topics and respond appropriately to conversational

prompts, analyze and compare cultural practices, products, and perspectives of various French-speaking countries, read and analyze important pieces of Hispanic literature, and take frequent assessments where their language progression can be monitored. The course is conducted almost entirely in French. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

**Required Materials:** Microphone and audio recording software.

### **German I [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

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

**Required Materials:** Microphone and audio recording software.

### **German II [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: German I***

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

**Required Materials:** Microphone and audio recording software.

### **German III [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: German II***

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

of various German-speaking countries, and take frequent assessments where their language progression can be monitored. By semester 2, the course is conducted almost entirely in German. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

**Required Materials:** Microphone and audio recording software.

### **German IV [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: German III**

This fourth year course builds upon the first three levels of German. Students will continue to develop their skills in reading, writing, listening and speaking, building vocabulary and grammar skills that move beyond practical scenarios to focus on cultural competency. Exercises based on authentic texts, as well as audio and visual materials from Germany, Austria, and Switzerland, will teach students to think critically and express themselves on topics relevant to German culture, past and present. Topics include: the history of political resistance, current events, environmentalism, multiculturalism, multilingualism, important personalities in the arts, literature and sciences, and profiles of three major cities. This course is aligned with the national ACTFL Foreign Language standards and focuses on the five aspects of foreign language instruction: communication, culture, connections, comparisons, and community. These are the "Five C's of the Foreign Language Education" as outlined in Standards for Foreign Language Learning: Preparing for the 21st Century.

**Required Materials:** Microphone and audio recording software.

### **Latin I [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

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

**Required Materials:** Microphone and audio recording software.

### **Latin II [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: Latin I**

Students continue with their study of Latin through ancient, time-honored, classical language approaches which include repetition, parsing, written composition, and listening exercises. These techniques, combined with a modern multimedia approach to learning grammar, syntax, and vocabulary, prepare students for a deeper study of Latin. Each unit consists of a new vocabulary theme and grammar concept, reading comprehension activities, writing activities, multimedia culture, history, and mythology presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on engaging with authentic classical Latin through weekly

encounters with ancient passages from such prestigious authors as Virgil, Ovid, and Lucretius. The curriculum concurs with the Cambridge school of Latin; therefore, students will learn ancient high classical styles of pronunciation and grammar in lieu of generally less sophisticated medieval styles, making it possible for students to comprehend the most Latin from the widest range of time periods. Students should expect to be actively engaged in their own language learning, understand and use common vocabulary terms and phrases, comprehend a wide range of grammar patterns, understand and analyze the cultural and historical contexts of the ancient sources they study, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

**Required Materials:** Microphone and audio recording software.

### **Spanish I [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: None***

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

**Required Materials:** Microphone and audio recording software.

### **Spanish II [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: Spanish I***

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

**Required Materials:** Microphone and audio recording software.

### **Spanish III [S1, S2]**

***CREDIT: 0.5 per semester***

***GRADE LEVEL: 9-12***

***PREREQUISITE: Spanish II***

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

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

**Required Materials:** Microphone and audio recording software.

### **Spanish IV [S1, S2]**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: Spanish III**

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

**Required Materials:** Microphone and audio recording software.

## **CREDIT RECOVERY**

### **Algebra I [S1, S2] CR**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: Pre-Algebra**

The purpose of this course is to allow the student to gain mastery in working with and evaluating mathematical expressions, equations, graphs, and other topics, with an emphasis on real-world applications throughout this year-long algebra course. The first semester of the course includes an introduction to real numbers and variable expressions, method for solving equations, understanding functions and relations, and an in-depth study of linear and quadratic functions. The second semester of the course provides students with extensive instruction in topics including systems of equations and inequalities, exponential and radical functions, rational expressions and equations, as well as probability and statistics. Throughout the course are self-check quizzes, audio tutorials, interactive manipulatives, practice games, and plenty of review activities.

**Required Materials:** Graphing Calculator

### **Algebra II [S1, S2] CR**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: Algebra I**

Algebra II Credit Recovery expands on the mathematical content of Algebra I and Geometry and serves as a foundation for the material presented in subsequent mathematics courses (for example, Trigonometry and Calculus). In this course, the emphasis is on functions and using algebraic solutions to solve various types of problems. Students are encouraged to develop their abstract thinking skills as well as their computational skills. The two-semester course

covers the following topics: linear and quadratic functions, radical functions, rational functions, exponential and logarithmic functions, trigonometric functions, systems of equality, geometry, conic sections, statistics and probability.

**Required Materials:** Graphing Calculator

### **American Government CR**

**CREDIT: 0.5**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

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

### **American History [S1, S2] CR**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

This credit recovery course gives students a basic understanding of American history. The course begins with the settling of America and continues through present-day domestic and foreign issues that affect American society. In this course, students analyze influential documents and learn about significant individuals who contributed to the nation's development. They study the causes and effects of the various wars in which Americans have fought, and they use critical thinking and problem-solving skills as they take part in interactive discussions and complete a variety of assignments. By the end of the course, students have the knowledge to discuss the characteristics that define the United States as a world power.

### **Biology [S1, S2] CR**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

This credit recovery course is an introduction to biology, which is the branch of knowledge that deals with living organisms and vital processes. In Biology, students learn about the processes of scientific inquiry (the diverse ways in which scientists study the natural world and propose explanations based on the evidence derived from their work). They also learn about the fundamental principles of living organisms, including physical and chemical properties of life, cellular organization and function, and the transfer of energy. The course also addresses cellular reproduction, the classification of living things, and the six kingdoms of life. Students explore ecology and ecosystems and conclude the course with a unit on human biology and populations.

**Required Materials:** See materials posted within course or visit this [link](#)

### **Chemistry [S1, S2] CR**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

This course adheres closely to standards for the teaching of chemistry. Emphasis is placed on the use of theoretical and mathematical concepts to explain and predict chemical behavior. This course has been specifically built with the credit recovery student in mind. The course content has been appropriately grouped into smaller topics to increase retention and expand opportunities for assessment. Students engage in learning through multimedia activities, enhancing the information through contextual presentations. Post-topic quizzes are presented with each topic of



content. Audio readings are included with every portion of content, allowing auditory learners the opportunity to engage with the course. Test pools and randomized test questions are utilized as well as unit exams, ensuring that students taking the course will not be presented with the same assessment content.

**Required Materials:** See materials posted within course or visit this [link](#).

## **Earth Science [S1, S2] CR**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: Pre-Algebra, Physical Science 8**

Earth Science is the branch of science devoted to studying the planet Earth and all the objects in the universe. This course begins with an introduction to the processes, methods, and tools of scientific inquiry. An understanding of the geology of Earth is built through units that discuss topics such as rocks and minerals, plate tectonics, and Earth's natural resources. The structure and function of the atmosphere as well as situations that cause changes in the atmosphere build student's understanding of Earth's atmosphere. The study of oceanography is introduced with such topics as seafloor features and ocean currents. Weather, climate, and climate change are topics that begin to develop an understanding of meteorology. Throughout the course students develop an understanding of how Earth's systems and cycles work together to make life on Earth possible. The students also take a tour of the universe as they discuss its formation, the characteristics of the objects in our solar system, and the universe beyond our solar system. Throughout the course, they see examples of how individuals have built our knowledge of Earth and the universe through invention, innovation, and discovery.

## **Economics CR**

**CREDIT: 0.5**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

In this one-semester credit recovery course, students gain a basic understanding of economics. The course uses real-world economic applications to help students better grasp a range of economic concepts, including macro- and microeconomic concepts. The course covers the American free enterprise system and addresses how this system affects the global economy. Students learn how to think like economists as they study economic principles and different economic systems. They analyze and interpret data to understand the laws of supply and demand. Examining the world of business, money, banking, and finance helps students understand how economics is applied both domestically and globally.

## **English 9 [S1, S2] CR**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

In this credit recovery course, students learn about modern forms of communication and the media, with a focus on the Internet. They also explore elements of fiction and expository texts, build their vocabulary, and develop their language skills through reading and writing assignments. Vocabulary lists and definitions are provided in both English and Spanish. Tools to improve study skills are embedded throughout the course; threaded discussions, rubrics, and study guides help students absorb and proactively respond to the course content. Because the course is designed specifically for credit recovery students, content is appropriately grouped into smaller topics to increase retention and expand opportunities for assessment.

**Required Materials:** Reading materials can be obtained at your local library. Please see materials list posted within course.

## **English 10 [S1, S2] CR**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: English 9**



In English II Credit Recovery, students conduct an in-depth survey of literature. They read literary works from a variety of genres and cultures and examine both classic and modern periods. In the process, students learn about literary techniques and the effectiveness and purposes of common literary devices. The course stresses critical thinking skills; assignments include speaking and writing projects to help students develop these skills. Students continue to build their vocabulary in this course; as in English I (E), vocabulary lists and definitions are provided in English and Spanish. Interactive questions and games allow students to check their understanding before taking assessments.

**Required Materials:** Reading materials can be obtained at your local library. Please see materials list posted within course.

### **English 11 [S1, S2] CR**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: English 10**

This credit recovery course helps students understand how the reading, writing, listening, and speaking skills they have been developing in high school can be applied to work they may do in college courses and in their future careers. In English III, students use an online literature anthology to continue their study of literature. Course content progresses chronologically through the periods of American literature, from Native American oral traditions through contemporary works of poetry, fiction, drama, and nonfiction. Each unit focuses on a literary movement through the lens of an overlying theme. Students continue to work on their vocabulary skills and supplement their learning with multiple-choice games, self-check activities, and writing projects.

**Required Materials:** Reading materials can be obtained at your local library. Please see materials list posted within course.

### **English 12 [S1, S2] CR**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: English 11**

English IV Credit Recovery is a condensed version of the English IV Foundations course. Its format and length makes it a great fit for summer programs and other contexts in which instructional time and teacher time may be limited. In this course, students read and analyze classic, modern, and contemporary literary works. Reading selections, which are contained in an online literary anthology, include plays, short stories, poetry, essays, and novels. Students think critically about the complex issues posed in the readings and express their interpretations of these issues in essays, research papers, journals, and oral presentations. Students learn about the validity of sources as they complete their writing assignments.

**Required Materials:** Reading materials can be obtained at your local library. Please see materials list posted within course.

### **Geography [S1, S2] CR**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

Designed for credit recovery students, this course examines a broad range of geographical perspectives covering all of the major regions of the world. Each region is reviewed in a similar structure so that students can clearly see the similarities and differences between regions. Specifically, the course explores where each region is located, along with its physical characteristics, including absolute and relative location, climate, and significant geographical features. The course then examines each region from a cultural, economic, and political perspective, closely examining the human impact on the region from these perspectives as well as how content includes instruction on writing about art and a discussion of art historians.

### **Geometry [S1, S2] CR**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 10-12**

**PREREQUISITE: Algebra I**

Geometry Credit Recovery is a comprehensive course featuring geometric terms and processes, logic, and problem solving. The course begins by giving students an immediate connection to the content and concepts they have learned in their Algebra courses. (Building on prior knowledge helps students absorb new content.) Students go on to learn about parallel line and planes; rays and angles; congruent triangles; inequalities; quadrilaterals; circles; polygons; perimeter, area, and volume; inductive and deductive reasoning; and translations, reflections, and rotations. They study various forms of proofs and develop their reasoning and problem-solving skills by studying similarity, areas, volumes, circles, and coordinate geometry.

**Required Materials:** Graphing Calculator

## **Health CR**

**CREDIT: 0.5**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

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

## **Physical Education CR**

**CREDIT: 0.5**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

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

## **Physical Science [S1, S2] CR**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

This credit recovery course is an introductory course to high school science courses. In Physical Science (E), students expand on their middle school science experiences to prepare for subsequent courses in Biology, Chemistry, and Physics. The course emphasizes scientific thinking as a way of understanding the natural phenomena that surround us. It includes real and virtual lab exercises and gives students the skills to discuss a number of scientific topics, understand how science is used in their daily lives, and become comfortable with solving simple algebraic expressions that support scientific laws. Built with the credit recovery student in mind, the course content is grouped into smaller topics to increase retention and expand opportunities for assessment.

**Required Materials:** See materials posted within course or visit this [link](#).

## **Spanish I [S1, S2] CR**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

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

**Required Materials:** Microphone and audio recording software

### **World History [S1, S2] CR**

**CREDIT: 0.5 per semester**

**GRADE LEVEL: 9-12**

**PREREQUISITE: None**

World History Credit Recovery is a survey of world history from prehistoric to contemporary times. Students learn about the socioeconomic, political, and ideological conditions of various time periods as they study historical events, cultural achievements, and world regions. Using primary and secondary sources, they employ critical thinking and problem-solving skills as they conduct inquiry-based research, participate in interactive discussions, and complete assignments establishing real-world connections. By the end of the course, students can articulate the relationship between historical occurrences and contemporary situations. They can also predict how contemporary issues will affect future generations, based on historical evidence.

## ***MIDDLE SCHOOL COURSE OPTIONS (6TH- 8TH)***

### **MS ENGLISH LANGUAGE ARTS**

#### **MS English Language Arts I - 6th [S1, S2]**

Using a motif of Heroes, Helpers, and Hope, students in the Middle School Language Arts I course will acquire the reading, writing, language, and speaking/listening skills necessary for success in college, career, and beyond. Students will become critical readers and thinkers as they delve into fiction and informational texts within the course. They will also learn to effectively write narrative, informational, and argumentative pieces and present their ideas clearly and cohesively.

#### **MS English Language Arts II - 7th [S1, S2]**

Using a motif of Mystery, Monsters, and Mayhem, students in the Middle School Language Arts II course will acquire the reading, writing, language, and speaking/listening skills necessary for success in college, careers, and beyond. Students will become critical readers and Thinkers as they delve into fiction and informational texts within the course. They will also learn to effectively write narrative, informational, and argumentative pieces, and present their ideas clearly and cohesively.

#### **MS English Language Arts III - 8th [S1, S2]**

Using a motif of Innovation, Imagination, and Invention, students in the Middle School Language Arts III course will acquire the reading, writing, language, and speaking/listening skills necessary for success in college, careers, and beyond. Students will become critical readers and thinkers as they delve into fiction and informational texts within the course. They will also learn to effectively write narrative, informational, and argumentative pieces, and present their ideas clearly and cohesively.

# MS MATHEMATICS

## **MS Fundamentals of Geometry & Algebra [S1, S2]**

Students enhance computational and problem-solving skills while learning topics in algebra, geometry, probability, and statistics. They solve expressions and equations in the context of perimeter, area, and volume problems while further developing computational skills with fractions and decimals. The study of plane and solid figures includes construction and transformations of figures. Also in the context of problem solving, students add, subtract, multiply, and divide positive and negative integers and solve problems involving ratios, proportions, and percents, including simple and compound interest, rates, discount, tax, and tip problems. They learn multiple representations for communicating information, such as graphs on the coordinate plane, statistical data and displays, as well as the results of probability and sampling experiments. They investigate patterns involving addition, multiplication, and exponents, and apply number theory and computation to mathematical puzzles.

**Required Materials:** Calculator, compass, graph paper, protractor, and ruler

## **MS Math I - 6th [S1, S2]**

The course is designed to engage students at every turn. Students have opportunities to demonstrate their knowledge of number manipulation by applying it to real world scenarios. The course is packed with games that reinforce and let students practice the skills they learn throughout the course. Tidbits of trivia and activities throughout the course leave students with a smile.

## **MS Math II - 7th [S1, S2]**

The course is designed to expand student knowledge about transformations of shapes by sliding, flipping, rotating, and enlarging them on the coordinate plane. This course gives students the opportunity to create, investigate, and demonstrate knowledge at both intermediate and advanced levels. Students will be amazed with the skills that they accumulate in completing this course. This course is so full of animations, applications, videos, games, and real-world scenarios, students may think it is the latest video game.

## **MS Math III - 8th [S1, S2]**

Students who love interactive learning will enjoy Pre-Algebra. They experience intrigue and fun when they log in to Pre-Algebra. This hands-on course is full of slideshows, applications, videos, and real-world scenarios. The satisfaction students gain from truly understanding higher level concepts such as functions and systems of equations encourages excitement and joy for learning that they may have never experienced before.

The instruction in this course will focus on three critical areas: (1) analyzing two-and three-dimensional space and figures using distance, angle, similarity, and congruence, and understanding and applying the Pythagorean Theorem; (2) grasping the concept of a function and using functions to describe quantitative relationships; (3) formulating and reasoning about expressions and equations, including modeling an association in bivariate data with a linear equation, and solving linear equations and systems of linear equations.

# MS SCIENCE

## **MS Science I - 6th [S1, S2]**

Middle School Comprehensive Science I is the first in a series of three consecutive science classes. It introduces middle school students to the disciplines of life science, physical science,

and earth-space science. In addition, technology, engineering, and mathematics (STEM) concepts are integrated throughout the course. The lessons make real-world connections and require students to apply STEM skills like analysis, problem solving, science knowledge, and engineering practices. Hands-on and laboratory investigations are included throughout the course to provide students opportunities for exploration through scientific inquiry, research, measurement, problem solving, and experimental procedures. By the end of the course, students will be practicing, experimenting, thinking, and talking like a scientist!

**Required Materials:** None

### **MS Science II - 7th [S1, S2]**

Comprehensive Science II is the second course in the Middle School Comprehensive Science Sequence. In this course students explore: The Foundations of Science, Energy, The Earth and its features, The Earth's internal and external structures and how they change, The Earth's history, Living things and how they change and interact, Genetics and Heredity, and The Organization of the living world. Some of these topics are introduced and serve as a foundation for Comprehensive Science Three and others are discussed in detail. Students will learn through real world examples and virtually visit 6 different continents to see science in action all over the world. Students will participate in activities and online laboratory experiences to apply what they have learned.

**Required Materials:** None

### **MS Science III - 8th [S1, S2]**

Comprehensive Science III is the last course of the Middle School Comprehensive Series. The course introduces new information and reviews some basics of science to prepare students for high school science coursework. Topics covered in this course include: The Nature of Science, Earth and Space Science, Properties of Matter, Changes in Matter, Matter and Energy, and Energy flow in the living world. During this course students will learn through real world examples and applications. Students will participate in activities and online laboratory experiences to apply what they have learned.

**Required Materials:** Safety goggles and household items.

## **MS SOCIAL STUDIES**

### **MS Civics - 6th [S1, S2]**

Learning about civics gives students the skills and knowledge necessary to be active citizens who have a positive impact on their communities. In this course, students discover the rights and responsibilities of citizenship in the United States. They learn about the structure of the government and how it works at the local, state, and federal levels. This course examines elections, the lawmaking process, and how citizens can impact public policy. Students also discover ways the United States interacts with countries around the world. Geography and economics support the learning of civics in this course. Engaging in this study prepares students to be informed citizens who are ready to participate in the American democracy!

### **MS U.S. History - 7th [S1, S2]**

Learning about history allows people to see how far we have come and what awaits us on our path to the future. In this course, students will explore the history of the United States and analyze the cause and effect in historical events. They will investigate history by using the tools of a historian to examine the historical, geographic, political, economic, and sociological events that influenced the development of the United States. Students will imagine what it was like to live in the past by reading the stories from the people who experienced it. This course begins with the engaging stories of what brought the earliest American colonists to the New World and ends with the struggles to repair the United States following the Civil War. Engaging in this study allows students to recognize the themes of history that

span across centuries and leads to a greater appreciation of the development of the United States and the resulting impact on world history.

## **MS World History - 8th [S1, S2]**

Studying history helps students connect events from the past to the world around them. In this course, students examine civilizations that have left their mark on history. They join travel agent Mr. Lightfoot in a journey back in time digging through the past and examining its impact on our world today. In their travels, students explore ancient civilizations in Egypt, the Indus Valley, and the Near East. They study the religions and cultures of India, Africa, and Asia. They investigate the impact of the Age of Discovery and imperialism on these cultures. Students trace these changes and their effects as they study the world wars and the modern world.

# **MS HEALTH AND PE**

## **MS Fitness**

Are you physically fit? What does being fit mean to you? Physical fitness is a lot more than just a number on a scale – and that’s exactly what you’ll learn in this course! This course will help you understand the basics behind what it means to be physically fit; allow you to gain a deeper understanding about how your body functions; learn the complex science behind exercise; explore what it means to be mindful and what inspires you; and determine how you can test your current level of fitness. Being and staying physically fit is a lifelong endeavor and, just like human beings, there are many complexities involved! Learning about and improving your physical fitness is a smart choice to make at any age – and by signing up for this course, you will be doing exactly that! Consider this course to be the first step on your exciting journey to understanding and improving your physical fitness.

### **Required Materials:**

- Video recording device – either camera phone, iPad, computer camera – as long as video and sound can be recorded
- Paper and pencils if student chooses to hand draw certain labs rather than using slide-show presentation
- Free weights or a free-weight substitute like canned soup or milk jugs
- A ball for throwing
- A Frisbee
- Hockey stick, golf club, or baseball bat and matching ball
- Timer
- Distance tracker or distance tracking app
- Tennis racket, badminton racket, or ping-pong paddle
- Jump rope
- Volleyball or football
- A friend or family member to act as a partner

## **MS Health**

Middle School Health aids students in creating a foundation of personal health. Beginning with properly defining health, this course then builds upon basic health practices to emphasize the importance of balance. Attention is given to each of the six dimensions of wellness; namely, physical, intellectual, emotional, spiritual, social, and environmental. Students are taught the skills necessary to improve every aspect of health. They are also encouraged to reflect upon their own personal wellness each week.

## **MS Health 6**

This course is designed to equip students with the knowledge and skills necessary to make healthy choices throughout one’s lifetime. Students will gain valuable health information and learn healthy, proactive practices. Students will have an opportunity to demonstrate their skills in healthy decision-making, problem solving, goal setting, and effective communication and refusal negotiation. Students will acquire the skills necessary to recognize unhealthy and risky behaviors, manage peer pressure, and develop strategies for improving personal and community health. Students will gain an understanding of the many different influences on one’s health and the interrelationships that occur between



mental, physical, social, spiritual and environmental health. The course will consist of vocabulary quizzes, discussion sessions amongst peers, multimedia interactive tutorials, lab activities and teacher interactions. Students will be assessed weekly to determine content understanding. After completion of this course, students will understand and be able to begin implementing positive, lifelong, health skills for optimum health and wellness.

### **MS Health 7**

This course is designed to teach lifetime health and wellness knowledge in order to prevent various psychological and physical disorders. Students will learn health information and practices, as well as experience implementing their newfound skills and knowledge. They will acquire the skills necessary to handle peer pressure, recognize unhealthy and risky behaviors and how to prevent and avoid them, and develop strategies for improving personal and community health. Students will gain an understanding of the relationships that influence one's health, as well as refusal and coping skills that play a major parting personal health, as well. Quizzes, discussion sessions among peers, projects, and interactions will be assessed weekly to gauge content understanding. After completion of this course, the student will understand and have experience practicing lifelong skills for lifelong health and wellness.

### **MS Health 8**

Welcome to the 8th grade Health course. This course is designed to provide the student with the knowledge and skills that will enable him or her to achieve and maintain a healthful lifestyle. The student will learn health information and practices necessary to understand and manage many aspects of their physical, social, intellectual, spiritual and emotional health throughout adolescence into adulthood.

### **MS Physical Education 6**

The 6th grade physical education course will introduce students to health related fitness components, dance, team sports, healthy choices and lifetimes activities. Through these units students will learn the essential principles to live a healthy active lifestyle. The lessons will give the student exposure to many of the activities that can be incorporated into their daily lives today, tomorrow and in their future.

### **MS Physical Education 7**

Through this online Physical Education course students will be exposed to many diverse activities and will learn a wide variety of fitness concepts that they will be able to use in their everyday lives. Students will learn lifelong skills such as rock climbing, orienteering, and ping-pong along with stress management concepts through Yoga and Pilates. Students will develop a sense of self-esteem and accomplishment through completion of fitness tests, attaining personal goals set, and learning to care for their body. Integrated assignments will show students that content areas of science, social studies, math, and English are littered throughout physical education and apply in our everyday activities. Quizzes, discussion boards, projects, and physical activity will be assessed weekly to gauge content understanding. After completion of this course students will have the knowledge to stay fit and stay active well beyond middle school.

### **MS Physical Education 8**

In this online course students will be exposed to various physical activities and fitness concepts that will contribute to their overall physical activity level. The students will learn a multitude of skills that will accompany them throughout their lifespan. They include things like target heart rate, the basics of fitness testing, goal setting, safety, balance, motion, aerobic/anaerobic exercise routines, strength training, stress management, yoga, Pilates, various dances, cycling, and other individual games and activities. Other subject areas like science, math, social studies, foreign languages, and English are integrated into the course content. Students understanding of the course content will be assessed in a variety of ways that include quizzes, tests, discussion boards, and other projects. After completing the course the students will have mastered the course content.

### **MS Intro to Group Sports [S1, S2]**

This course provides students with an overview of group sports. Students learn about a variety of sports, and an in-depth study of soccer or basketball. Students learn not only the history, rules, and guidelines of each sport, but



practice specific skills related to each sport. Students also learn about game strategy and the benefits of sports. In addition, students study elements of personal fitness, goal setting, sport safety, and sports nutrition. Students conduct a pre- and post-fitness assessment, as well as participate in regular weekly physical activity.

### **MS Intro to Individual Sports [S1, S2]**

This course provides students with an overview of group sports. Students learn about a variety of sports and do an in-depth study of baseball/softball, and volleyball. Students learn the history, rules, and guidelines of each sport, as well as practice specific skills related to each sport. Students also learn about sportsmanship and teamwork. In addition, students study elements of personal fitness, goal setting, sport safety, and sports nutrition. Students conduct a pre- and post-fitness assessment, as well as participate in regular weekly physical activity.

## **MS WORLD LANGUAGES**

### **MS French I [S1, S2]**

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

**Required Materials:** The student will need a microphone and audio recording software.

### **MS French II [S1, S2]**

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

**Required Materials:** The student will need a microphone and audio recording software.

### **MS German I [S1, S2]**

This fun, interactive course for middle school students is filled with diverse, multimedia language activities. The instruction is equivalent to that found in the first semester of High School German I. Students begin their introduction to German by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices

which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various German-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

**Required Materials:** The student will need a microphone and audio recording software.

### **MS German II [S1, S2]**

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

**Required Materials:** The student will need a microphone and audio recording software.

### **MS Mandarin Chinese I [S1, S2]**

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

**Required Materials:** The student will need a microphone and audio recording software.

### **MS Mandarin Chinese II [S1, S2]**

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

**Required Materials:** The student will need a microphone and audio recording software.

### **MS Spanish I [S1, S2]**

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

**Required Materials:** The student will need a microphone and audio recording software.

### **MS Spanish II [S1, S2]**

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

**Required Materials:** The student will need a microphone and audio recording software.

## **MS ELECTIVES**

### **MS 2D Studio Art**

Close your eyes and imagine you're standing in an art studio—the smell of paint, the heat of the kiln, and the infinite creative possibilities that linger in the air. This is where art is born, and in 2D Studio Art, you'll learn how to bring your art visions to life. Whatever medium you prefer—painting, drawing, photography—this course will teach you the design elements and principles needed to create a work of art, explore your artistic inspirations, travel back in time to look at art in different cultures, and gain insight about the art of critiquing. If you've ever dreamed about making a living as an artist, this course will give you the tools and background that you need to turn those dreams into a reality.

**Required Materials:**

- Various sizes of white drawing paper
- Various sizes of colored paper
- Paintbrushes in varying sizes
- Empty cans or jars to wash paint brushes
- Ruler and/or protractor
- Erasers
- Scissors
- Miscellaneous household objects to use for still life art
- Digital camera, camera phone, or other type of camera
- Paint: (two or more of the following)
- Tempera Paint • Acrylic Paint

- Watercolor • Ink Wash
- Oil Paint
- Drawing Tools: (two or more of the following)
- Pastels • Charcoal
- Markers • Colored Pencils

## **MS Art 6**

In this one-semester course, sixth-grade students learn how to identify and discuss formal elements, principles of design, and stylistic characteristics found in artworks from various world regions. They explore the fundamental concepts of art; how to evaluate art; and how to discern the intended function of natural history museums through hands-on activities, discussions, written assignments, and objective assessments. The course begins with an orientation that provides an introduction to art appreciation and a timeline of ancient history. Students move on to study art from various world regions, including Mesopotamia and the Indus River Valley, Egypt, China and Japan, Greece, Italy, and the Americas.

## **MS Art 7**

Journey through time and place while examining some of the greatest masterpieces created. In this course, students will explore world regions and study the unique artifacts and works of architecture that define ancient civilizations. From Mesopotamia, the world's first civilization, to the Roman streets of Pompeii, participants will learn the fundamental concepts of art, how to look at and evaluate art, and the intended function of natural history museums through hands-on activities, discussions, written assignments, and objective assessments.

## **MS Art 8**

Journey through time and place while examining some of the greatest masterpieces created. In this course, students will explore world regions and study the unique art and architecture that defines modern-day civilizations. From Picasso to Hiroshige, participants will learn the fundamental concepts of art, how to look at and evaluate art, and where to find educational resources for the study of art history and applied arts through hands-on activities, discussions, written assignments, and objective assessments.

## **MS Art Explorations**

Introducing students to diverse areas in the arts can broaden their perspective on the arts in general. Arts Explorations encourages students to experience each of the modern arts disciplines including Visual Arts, Theatre, Music, Media Arts and Dance. Students will also be able to identify areas of special interest where they would like continued study and the ways that the arts can be a part of their career paths.

## **MS Beginning Painting**

This course introduces students to classical and contemporary painting, techniques and concepts, with emphasis on the understanding of its formal language and the fundamentals of artistic expression. Painting from still life, landscape, and life models from observation will be geared towards realism; at the same time, various other painting styles could be explored. Color theory, linear perspective, compositional structure, figure/ground relationships, visual perception, spatial concepts, and critical thinking skills will all be emphasized. Students will study and research major painting styles and movements in historical context. The hope is that students will use this global approach to develop a "critical eye" in evaluation of contemporary painting. Acrylic and watercolors are the mediums used in this class. The main emphasis of this course is to encourage and nourish individuality and creativity.

### ***Required materials:***

- Chromacryl tube of acrylic paints
- Round brush
- Flat brush
- Watercolor paints
- Set of markers
- Painting paper
- Newsprint paper
- 1–4b pencil
- 7 project cardstock pages

## **MS Career Exploration I**

How many times have you heard, “What do you want to be when you grow up?” When you close your eyes and picture yourself in the future, what do you see? Police officer? Doctor? Farmer? Pilot? Teacher? Really, the possibilities are endless. And with so many careers to pick from, it can be confusing knowing where to start your search. In Middle School Career Exploration, you will have the chance to explore more than 15 different career areas including energy fields, human resources, the law, transportation, and more. Discover which careers you might enjoy the most and which ones you’ll be best at.

## **MS Career Exploration II**

Imagine that it’s 20 years from now. What career do you see yourself in? What do you imagine that you’ll be doing? Will you be fighting forest fires or engineering the next rocket into space? With all the careers available, it can be difficult to narrow them down. In Middle School Career Explorations 2 we’ll explore more careers and what they takes to succeed. You’ll learn more about what steps are needed to prepare for your career and how to compare the pros and cons of different career choices. Finally, you’ll get the chance to try out parts of different careers to see if you’re a perfect fit.

## **Coding 1a: Introduction to Programming [S1, S2] (6-12)**

Have you ever wanted to create your own web page or wondered how your favorite websites were built? Maybe you want to know more about how computers and technology are affecting the world around us. In Coding 1a: Introduction to Programming, you will explore the role technology plays in our lives as well as study the fundamentals of computer science, review hardware and software, and learn how the internet functions. You will also discover how to create and build your own website using HTML and CSS and learn basic and complex commands and sequences as you become familiar with programming languages like JavaScript and Python Programming. This course also covers data collection methods, access rights, protocols, and security.

### **Required Materials:**

- Logo Interpreter (Login Optional; Free) – <http://www.logointerpreter.com/turtle-editor.php>.
- Typing Practice for Programmers (Sign in with Google or Demo; Free) – <https://typing.io>
- Obvibase (Sign in with Google, Facebook, or email; Free) – <https://www.obvibase.com/>.
- Newsela (Required for a lab question; Free) – <https://newsela.com>
- Tynker (Free) – <https://www.tynker.com>
- Lucidchart (Sign in with Google or email; Free) – <https://www.lucidchart.com>
- Replit (Free) – <https://repl.it/> Must have an email address to create a free account

## **MS Computer Basics**

In this course you will learn how to use productivity and collaboration tools, such as G Suite by Google Cloud to create word processing documents, spreadsheets, surveys and forms such as personal budgets and invitations.

## **MS Digital Arts and Design**

There are so many different types of art in this world—fine art, classical art, visual art—but the impact of digital art and design is all around us, often in ways that you probably aren’t even aware of! After taking Digital Art and Design, you’ll enjoy a deeper understanding and appreciation for all things digital as you explore this special genre of art found in everything from advertising to animation to photography and beyond. In this course, you’ll learn about the evolution of art, the basic principles of art and design, and the role of art in politics and society. Additionally, you will actually create your own digital art and make it come alive. Give your creative side a boost with this Digital Art and Design course.

### **Required Materials:**

- Digital camera or cell phone with a camera feature (requires uploading digital photographs taken by student)
- Drawing paper and colored pencils or markers or drawing software (requires creating a logo)
- Drawing paper and colored pencils or markers or drawing software or animations software (requires creating a character that could be animated)
- A computer or phone with a recording feature/app (will need to record a “radio” commercial)



## MS Exploring Music

What comes to mind when you hear the word 'music'? Do you think about your favorite band or artist? Do you think about instruments and scales and chords? The word 'music' means something different to everyone. This is why in Exploring Music there is a little bit of something for everyone! You will learn about how we hear music and how music affects our lives. You will explore important elements of music like rhythm, pitch, and harmony, as well as different musical genres. You will discover more about your singing voice and musical instruments and composition while taking in the history and culture of music over the years. Tune up your understanding and appreciation for all things music by signing up for this course.

## MS Family & Consumer Science

The middle school Family and Consumer Science course focuses on the introduction of skills and knowledge that will help young teenagers transition into the adult roles within the family. Students engage in activities to learn more about managing money, entering the world of work, establishing a home and family, preparing nutritious meals, working as part of a team, and caring for the environment and their community. Students gain an appreciation for the work of the family and how they as individuals contribute to the well-being of their family and their community.

## MS Game Design

We all love to play video games – but have you ever wanted to build your own? If you are interested in a career in technology but also want a creative outlet, Game Design might be the field for you. Learn how to build a game from the ground up in Middle School Game Design 1, an interactive and hands-on course that will teach you all the ins and outs of making your own game. You will learn the importance of game structure and discover what makes a game fun, challenging, and interesting to players just like you. You will also have the opportunity to explore the design and creative process involved in game creation, learn block-based programs, and experiment with character and story development. As a bonus, you will leave the course with a digital portfolio of everything you created in class.

### Required Materials:

- We are accessing Scratch 3.0 Preview Version in this course. Here are the minimum requirements from the Scratch 3.0 FAQ page (<https://scratch.mit.edu/preview-faq>):
- Scratch 3.0 is built on industry-standard HTML5 technology and is no longer dependent on Flash. Because of this, it runs in any modern web browser.

### Desktop

- Chrome (63+)
- Edge (15+)
- Firefox (57+)
- Safari (11+)
- Internet Explorer will NOT be supported.

### Tablet

- Mobile Chrome (62+)
- Mobile Safari (11+)

### Frequently Asked Questions

Will Scratch 3.0 work on tablets and phones?

- Scratch 3.0 will work on desktop, laptop, and tablet devices (iOS 11+ and Android 6+). On tablets, there won't be a way to use "key pressed" blocks or right-click context menus until next year.
- You will be able to view projects on mobile phones, but you won't be able to create or edit projects on phones.

Will Internet Explorer be supported?

- No. We encourage Scratch 2.0 users using Internet Explorer to upgrade their browsers in advance of the Scratch 3.0 official launch.
- What is WebGL and why do I need it to run Scratch 3.0?
- WebGL is a browser technology that is used by Scratch 3.0 to render projects to the stage. While WebGL is supported in all modern browsers, some older computers and operating systems can not support it. For users that can not run WebGL we recommend using the Scratch 2.0 Offline Editor.

**Please Note:** In this course, students will be designing their games in Scratch. The current version of Scratch 2.0 is Flash-based, but a new version is coming out later this year. Scratch offers a preview mode of their 3.0 version. We have tailored our instructions toward the Scratch 3.0 preview mode, found here: <https://preview.scratch.mit.edu/>. We will update our instructions once Scratch 3.0 is officially launched

## **MS Guitar [S1, S2]**

Have you ever dreamed of playing the guitar? Whether you love music, want to play guitar for your family and friends, or desire to be a music star, this course is a great place to start. No prior music experience is needed. You will learn the fundamentals of music and the basic skills necessary to play a wide variety of music styles. Student guides, Carlos and Summer, will guide you through each step of this journey towards becoming a skilled guitarist and musician.

**Note:** Course must be taken on 18 week schedule.

**Required Materials:** Guitar and recording device to submit videos of yourself playing guitar

## **MS Journalism**

Are you someone who likes to get the story straight? Do you always want to know more? Who? What? When? Where? How? These are the details that make for a great story. Knowing how to find these key facts and then write them up in a way that makes it easy for others to read about it is the skill of a true journalist. In *Middle School Journalism: Tell Your Story*, you'll learn how ask the right questions, look for the details, and find the story in any situation. You'll learn how to gather information effectively, organize ideas, format stories for media production, and edit your articles. Get ready to break that news.

## **MS Music 6**

Through this online Music course, students will be exposed to many diverse activities and will learn a wide variety of musical concepts they will be able to use in their daily experiences for the rest of their lives. Students will learn foundational skills such as performing, listening, analyzing and responding to music. Students will develop a sense of self-esteem by accomplishing activities that require higher critical thinking skills especially developed for their grade level. Integrated assignments incorporate other content areas of study providing students with an additional enrichment experience they'll be able to take with them for a lifetime. Quizzes, discussion boards, projects, and performance activities will be assessed weekly to gauge content understanding. After completion of this course, students will be able to describe and analyze musical sound, demonstrate musical artistry, perform a varied repertoire of music, read and write music notation, create and arrange music within specified guidelines and relate music to history, society, and culture.

## **MS Music 7**

Through this online Music course, students will be exposed to many diverse activities and will learn a wide variety of musical concepts they will be able to use in their daily experiences for the rest of their lives. Students will learn foundational skills such as performing, listening, analyzing and responding to music. Students will develop a sense of self-esteem by accomplishing activities that require higher critical thinking skills especially developed for their grade level. Integrated assignments incorporate other content areas of study providing students with an additional enrichment experience they'll be able to take with them for a lifetime. Quizzes, discussion boards, projects, and performance activities will be assessed weekly to gauge content understanding. After completion of this course, students will be able to describe and analyze musical sound, demonstrate musical artistry, perform a varied repertoire of music, read and write music notation, create and arrange music within specified guidelines and relate music to history, society, and culture.

## **MS Music 8**

Through this online Music course students will be exposed to many diverse activities and will learn a wide variety of musical concepts they will be able to use in their everyday lives for the rest of their lives. Students will learn foundational skills such as performing, listening, analyzing and responding to music. Students will develop a sense of self-esteem by accomplishing activities that require higher critical thinking skills especially developed for their grade level. Integrated assignments incorporate other content areas of study such as: science, social studies and math. The content studied will directly apply to other areas of study providing students with an additional enrichment experience they'll be able to take with them for a lifetime. Quizzes, discussion boards, projects, and performance activities will be assessed weekly to gauge content understanding. After completion of this course, students will have the knowledge to critically analyze music, use proper music terminology to describe musical concepts, create music of their own and enhance their musicianship.



## **MS Photography [S1, S2]**

Photographs play an important role in our world today. We photograph to preserve memories, document events, and create artistic works. This course introduces students to the basics of photography, including camera functions and photo composition. Students will learn what it takes to create a good photograph and how to improve photographs of animals, people, and vacations. They will also begin working with their photographs using photo-editing software. Through a variety of assigned projects, students will engage their creativity by photographing a range of subjects and learning to see the world through the lens of their cameras.

**Required Materials:** Digital Camera & Editing software-capable of cropping, resizing, changing exposure and saturation. There are several free software options such as PicMonkey, Photoscape, GIMP

## **Study Skills and Strategies (8-12)**

The Study Skills and Strategies course equips students with skills and understandings critical to effective learning. Using a unique approach to the traditional topic of study skills, this course weaves understanding regarding the role of the brain in learning into the instruction of discrete learning skills and strategies. Moving beyond a list of good tips and ideas, the Study Skills and Strategies course will challenge students to develop intentional approaches to learning. They will be required to make connections between the strategies and skills they learn in this course and the implementation of those strategies and skills in their other coursework. Upon completion of the course, students will have learned a variety of specific learning skills and strategies, gained greater understanding of their own learning preferences, and become prepared to develop and implement specific learning and study plans for any academic course or other learning needs.