



Grade 9 Academic Courses 2020-2021

English 9 (CP, ACP, H)

Algebra I (CP, ACP, H)

Geometry (H)

World History (CP, ACP, H)

Biology I (CP, ACP, H)

Spanish I (CP, ACP)

BOLD denotes required content course

**Term length is semester based*



English Grade 9

Course #: 1102, 1101, 1100

Level: Honors, ACP, CP

This course begins the four-year English Language Arts curriculum aligned with *The Massachusetts Curriculum Framework for English Language Arts and Literacy*. Students experience a broad range of literature, including non-fiction informational texts, fiction, drama, and poetry with an emphasis on critical thinking and analysis. Each unit is anchored by a text that allows students to learn critical reading and various writing modes to establish a foundation for success in all subsequent years. Students will be expected to participate in class discussion, respond to daily, in-class writing-to-learn activities, and deliver frequent oral presentations. MCAS close reading sets and test taking strategies are embedded into the curriculum and students will complete a series of common formative and summative assessments throughout the year. **Credits: 4**

Algebra I

Course #: 2102, 2101, 2100

Level: Honors, ACP, CP

This course addresses the Common Core Standards for Algebra 1. Algebra I focuses on four critical areas: (1) deepen and extend understanding of linear and exponential relationships; (2) contrast linear and exponential relationships with each other and engage in methods for analyzing, solving, and using quadratic functions; (3) extend the laws of exponents to square and cube roots; and (4) apply linear models to data that exhibit a linear trend. **Credits: 4**

Geometry

Course #: 2122, 2121

Level: Honors and ACP

This course transitions capable students who have successfully completed Algebra I in Grade 8 to introduce students to the *Massachusetts Mathematics Curriculum Framework* (2017) learning standards for Geometry. Geometry focuses on six critical areas: (1) establish criteria for congruence of triangles based on rigid motions; (2) establish criteria for similarity of triangles based on dilations and proportional reasoning; (3) informally develop explanations of circumference, area, and volume formulas; (4) apply the Pythagorean Theorem to the coordinate plane; (5) prove basic geometric theorems; and (6) extend work with probability. As the year progresses, students explore more complex geometric situations and deepen their explanations of geometric relationships by presenting and hearing formal mathematical arguments. **Credits: 4**



World History Grade 9

Course #: 4102, 4101, 4100

Level: Honors, ACP, CP

This course examines the major changes that shaped the modern world, beginning with the Middle Ages through the eve of World War I. Major units include the Renaissance, the Age of Exploration, the Reformation and Counter-Reformation, Scientific Revolution and the Enlightenment, the Age of Absolutism, the French Revolution, the early Industrial Revolution, and Imperialism. The emphasis will be on the skills students need to become discerning historical thinkers: understanding geography; reading charts, graphs and tables; recognizing and understanding diverse viewpoints; comparing and contrasting information; conducting research, writing historical essays; working with primary and secondary source documents, and making presentations. Student learning will be assessed through homework, research, class participation, tests, quizzes, document-based questions, and historical analysis essays. **Credits: 4**

Biology I

Course #: 3102, 3101, 3100

Level: Honors, ACP, CP

This course introduces students to a two-year sequence in the study of biological sciences and the specific terminology and methodology relating to the basic concepts of life and its processes. The course begins with a short, standards-based, introductory unit: Scientific Skills and Metrics that will be used to review and enhance student understanding of scientific investigation. The remaining learning standards for Biology I provide the foundation for the following three units: Chemistry of Life; Cell Biology; DNA and Genetics and are based on the Massachusetts Science and Technology/Engineering Curriculum Framework. **Credits: 4**

Spanish I

Course #: 6100, 6101

Level: ACP, CP

This required course introduces students to the Spanish language by learning Spanish in preparation for the workplace. Students learn vocabulary and concepts of basic grammar acquisition, allowing them to communicate information about themselves and others using simple sentences, both orally and in writing. The practice of all four language skills: listening, speaking, reading, and writing, helps students solidify their acquisition of the Spanish language. Active participation in class activities and completion of homework assignments are required. Students placed in Spanish I ACP need to have successfully completed Spanish in middle school. **Credits: 4**



Grade 10 Academic Courses 2020-2021

English 10 (CP, ACP, H)

Geometry (CP, ACP, H)

Algebra II (H)

United States History I (CP, ACP, H)

Biology Options:

- **Biology II (CP, ACP, H)**
- **A.P. Biology**

Elective Options:

- **Spanish II (CP, ACP)***

NOTE: MA public colleges and universities do not require two years of foreign language for students enrolled in public CVTE high school programs. See:

www.mass.edu/shared/documents/admissions/admissionsstandards.pdf p.8. In addition, many MA private colleges and institutions and out of state public and private institutions do not require two years of high school foreign language, however admissions requirements at these institutions vary. Families are encouraged to preview admissions requirements on the college and university websites to plan accordingly during the course selection period.

- **Financial Literacy (CP)***
- **U.S. Government and Politics (CP)***
- **Understanding Higher Education (Early College)***

BOLD denotes required content course.

**Term length is semester based*



English 10

Course #: 1202, 1201, 1200

Level: Honors, ACP, CP

This course deepens students focus on acquiring the reasoning and analytical skills associated with literature and rhetoric, and the course will continue to focus on helping students make connections between literary and thematic elements and text-based support established in freshman year. Anchor and linking texts span long and short fiction, drama, and nonfiction. Synthesis of multiple texts will be integral to the curriculum, and students will complete classroom activities along with formative and summative assessments requiring synthesis throughout the year. Students will complete a series of common formative and summative assessments throughout the year. *Credits: 4*

Algebra II

Course #: 2232, 2231

Level: Honors, ACP

Continuing the progression for entering Grade 10 students who successfully completed Geometry in Grade 9, this course addresses the *Massachusetts Mathematics Curriculum Framework* (2017) learning standards for Algebra II. The focus is on the following four critical areas: (1) relate arithmetic of rational expressions to arithmetic of rational numbers; (2) expand understandings of functions and graphing to include trigonometric functions; (3) synthesize and generalize functions and extend understanding of exponential functions to logarithmic functions; and (4) relate data display and summary statistics to probability and explore a variety of data collection methods. Students work closely with the expressions that define the functions, are facile with algebraic manipulations of expressions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. *Credits: 4*

Geometry

Course #: 2202, 2201, 2200

Level: Honors, ACP

This course addresses the Common Core Standards for Geometry. Geometry focuses on six critical areas: (1) establish criteria for congruence of triangles based on rigid motions; (2) establish criteria for similarity of triangles based on dilations and proportional reasoning; (3) informally develop explanations of circumference, area, and volume formulas; (4) apply the Pythagorean Theorem to the coordinate plane; (5) prove basic geometric theorems; and (6) extend work with probability. *Credits: 4*



United States History I

Course #: 4202, 4201, 4200

Levels: Honors, ACP, CP

This course is the first part of a sequence of United States history that will be completed the following year in Grade 11. The goal is to deepen student understanding of the United States by examining the events leading up to the American Revolution to the early twentieth century. Major units include the study of the Constitution, the Early Republic, Jacksonian Democracy, Manifest Destiny, sectionalism, the U.S. Civil War, industrialization in the U.S., and U.S. Imperialism. Students will conduct critical reading and analysis using a variety of content to hone proficiency in primary and secondary source evaluation, evaluate cause and effect, develop and prove claims with evidence, and make inferences by critically evaluating content and writing supported arguments. Students will also begin publishing formal research papers with cited sources. Independent reading is a component of United States History I. ***Credits: 4***

Biology II

Course #: 3202, 3201, 3200

Level: Honors, ACP, CP

This course completes the second year of the two-year sequence in the study of biological sciences and the specific terminology and methodology relating to the basic concepts of life and its processes. Learning standards for Biology II serve as the foundation for the following three units: Ecology; Evolution and Biodiversity; Anatomy and Physiology and are based on the Massachusetts Science and Technology/Engineering Curriculum Framework. ***Credits: 4***

Advanced Placement Biology

Course #: 3203

Level: AP

A.P. Biology is an introductory college-level course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes-energy and communication, genetics, information transfer, ecology, and interactions. Students are expected to take the College Board A.P. Biology Exam in May. College credit may be applied with a score of three or higher on the College Board exam. ***Credits: 6***



Spanish II

Course #: 6200, 6201

Level: ACP, CP

Spanish II continues and solidifies the introduction to the Spanish language and culture with more extended vocabulary and grammar concepts. Students will continue to practice reading, writing, listening, and speaking in Spanish. Students learn how to conjugate stem-changing verbs in the present tense, as well as both types of past-tense verbs. **Please note that this elective is an intensive, hybrid semester offering and will combine 45 blocks of direct classroom instruction with 45 online Spanish-learning modules through our e-textbook. Students opting to take this course will be required to complete online assignments during both their Academic and CTE cycles.** This is a semester class. Spanish I is a prerequisite. *Credits: 4*

Financial Literacy

Course #: 2250

Level: CP

Financial Literacy is essential in meeting the financial challenge of the 21st Century with understanding and managing personal finances the key to one's future financial success. Based on the Massachusetts Mathematics Curriculum Framework (2017) learning standards, this course teaches students to apply the knowledge and skills to various financial situations they will encounter later in life to make critical decisions regarding personal finances. Students will learn money management, savings and investing, income, and spending strategies. This course will teach students to identify and prioritize their personal money management goals, develop personal spending, savings, and investing plans, tax implications and understand the cost of using credit along with asset protection. This is a semester class. *Credits: 2*

United States Government and Politics

Course #: 4210

Level: CP

This course is designed to provide tenth-grade students with a basic knowledge of the purpose, structure, and operation of the national and state governmental systems. The primary content of study is the Federal system and its underlying principles as they are related to National, State, and local levels. This course will be a thought-provoking exploration taught through the lens of current events into the United States Government and Politics. We will cover such topics as the Constitution, civil rights, interest groups, politics, voting, Congress, the Presidency, the Judiciary, laws, public policies, state & local government. This course is a semester class. *Credits: 2*



Understanding Higher Education

Course #: ec4204

Level: Early College / Semester 1

This Early College course provides an introduction to higher education, including the different purposes, functions, and structures of postsecondary institutions. Students will gain a comprehensive understanding of degree and career pathways available across institutional types as well as familiarity with the social and emotional factors that influence student persistence and completion across educational settings. A variety of contemporary issues in higher education will be explored, with particular emphasis on the ways in which student experiences intersect with these issues. Topics include but are not limited to academic discourse, social-emotional learning, educational planning, financial planning, college placement options, prerequisites/corequisites, and teaching and learning modalities. This Early College course will be taught by an ENSATS instructor and NSCC faculty. **Learning will take place on both the ENSATS and NSCC campuses and transportation will be provided.** Successful completion of this Early College course will result in students earning both ENSATS' high school credit along with NSCC college credit. This course is a Semester 1 only class. *Credits: 4*



Grade 11 Academic Courses 2020-2021

English Options:

- English 11 (CP, ACP, H)
- A.P. English Language and Composition

Math Options:

- Algebra II (CP, ACP, H)
- Pre-Calculus (H)

History Options:

- United States History II (CP, ACP, H)
- A.P. United States History

Lab-Based Science Options:

- Chemistry (CP, ACP, H)
- Physics (CP, ACP, H)
- Sustainability Science (CP)

Elective Options:

- Spanish I (CP, ACP)*
- Law and the Workplace (CP)*
- Business and Entrepreneurship (CP)*
- Intro to Computer Science (CP)
- Sustainability Science (CP)

BOLD denotes required content course.

**Term length is semester based*



English 11

Course #: 1302, 1301, 1300

Level: Honors, ACP, CP

This course examines American literature through fiction, nonfiction, poetry and drama from multiple perspectives. Students will analyze texts through stylistic, social, economic, historical, and critical lenses. The emphasis of this course is evaluating the relationship between form and content in a literary work, and then analyzing how both the author's intent and reader's perspective illuminate the meaning of the text. Students will produce short narratives, dramatic scenes, oral presentations, and analytical essays. *Credits: 4*

Advanced Placement English Language & Composition

Course #: 1303

Level: AP

In the A.P. English Language and Composition course—the rhetoric course—students learn how to analyze, synthesize, and evaluate nonfiction texts, including essays, biographies and autobiographies, speeches, sermons, and passages from writings in the arts, history, social science, politics, science, and other areas of study. Students learn to evaluate and construct arguments drawn from articles in newspapers, magazines, and online “zines” and “blogs.” The course cannot help but be interdisciplinary, immersing students in a variety of sources. Students are expected to take the College Board A.P. English Language and Composition Exam in May. College credit may be applied with a score of three or higher on the College Board exam. *Credits: 4*

Algebra II

Course #: 2302, 2301, 2300

Level: Honors, ACP, CP

This course is a continuation of algebraic concepts. Topics include functions and graphs and more complex problem solving, complex numbers, matrices to solve linear systems, vectors, analytic trigonometry, and relates the connections between the fundamental concepts of algebra, trigonometry and analytic geometry. Several standards in the Algebra II course were moved to the Enhanced Algebra I course which made it possible to add standards from the Pre-calculus Course to the Enhanced Algebra II course. In this way students will be prepared for Calculus after successful completion of Enhanced Algebra II. This is a course which covers material at a fast pace and in great depth, with the expectation of stronger student performance. A greater emphasis will be placed on algebraic approaches to problem-solving. *Credits: 4*



Pre-Calculus

Course #: 2322

Level: Honors and ACP

Continuing the progression for entering Grade 11 students who successfully completed Algebra II in Grade 10 and based on the *Massachusetts Mathematics Curriculum Framework* (2017) learning standards, this course combines the trigonometric, geometric, and algebraic techniques needed to prepare students for the study of calculus, and strengthens students' conceptual understanding of problems and mathematical reasoning in solving problems. Facility with these topics is especially important for students intending to study calculus, physics, and other sciences, and/or engineering in college. Because the standards for this course are (+) standards, students selecting this Model Precalculus course should have met the college and career ready standards. Instructional time will focus on four critical areas: (1) extend work with complex numbers; (2) expand understanding of logarithms and exponential functions; (3) use characteristics of polynomial and rational functions to sketch graphs of those functions; and (4) perform operations with vectors. **Credits: 4**

United States History II

Course #: 4302, 4301, 4300

Levels: Honors, ACP, CP

This course completes the second part of a sequence of United States history begun in Grade 10, by examining the major events in U.S. history from World War I to the 1960s. Major units include the study of World War I, the Great Depression and the New Deal, the Rise of Dictators, World War II, the Cold War, Civil Rights, the Vietnam War and Social Changes in the 1960s. As in previous years, students will continue to refine their critical reading and analytical writing, source evaluation, use of primary source documents, ability to make claims, evidence, and interpretation, and research methods. Honors students will pursue an accelerated program adding document analysis, debate, and rigorous practice writing supported essays based on synthesizing multiple sources. Please note that the U.S. History II Honors program is a pre-Advanced Placement curriculum that will require regular and significant preparation by reading and writing outside of class. **Credits: 4**

Advanced Placement United States History

Course #: 4303

Level: AP

A.P. United States History is designed to give grade 11 students a thorough understanding of United States History, requiring students to master historical interpretation, critical and analytical thinking, essay writing, and the integration of primary and secondary sources. The class prepares students to assess historical data and documents, evaluate relevance and reliability, and demonstrate historical knowledge of United States History. This course is equivalent to a full-year introductory college class and, therefore, all students enrolled in this course are expected to demonstrate their content mastery by taking the Advanced Placement exam in May. Please note that summer work is required. **Credits: 4**



Chemistry

Course #: 3302, 3301, 3300

Level: Honors, ACP, CP

This course is designed to teach students the concepts of composition, structure and properties of substances and the changes they will undergo. Topics will include the classification of matter, atomic structure, periodic table and chemical formulas, chemical reactions and gas laws. Students will utilize qualitative as well as quantitative approaches to predict outcomes and identify unknowns. Use of a scientific calculator is required. Strong math skills are recommended for the Honors Level. **Credits: 4**

Physics

Course #: 3312, 3311, 3310

Level: Honors, ACP, CP

This Physics course will introduce key concepts of the physical world including motion, energy, and electromagnetism. Hands on labs will reinforce these concepts. Measurement and problem solving including graphing and critical thinking will be introduced. Technology will be used to analyze data collected in lab activities. Use of a scientific calculator is required. Strong math skills are recommended for the Honors Level. **Credits: 4**

Sustainability Science

Course #: 3350

Level: CP

This lab-based course focuses on the application of science through the lens of sustainability to better understand the interrelationship between humans and their impact on the planet. After examining energy in the Earth, the structure and composition of the atmosphere, circulation of the oceans and atmosphere, and climate variations over time, students will learn about sustainable practices that are best suited to help promote and maintain a better ecological balance. Students will conduct research, analyze case studies, participate in several hands-on labs, and develop a problem-solving project using the scientific method. **Credits: 4**



Spanish I

Course #: 6301, 6300

Level: ACP, CP

Spanish I begins a two-year introduction to the Spanish language and culture with an emphasis on building a foundation in the language. Students will practice reading, writing, listening, and speaking in Spanish. Students will learn a variety of vocabulary words across many topics, basic grammar concepts such as present-tense verbs, forming sentences, and the use of gender in the language. Projects completed will be creative menus, written reports, and oral presentations. **Please note that this elective is an intensive, hybrid semester offering and will combine 45 blocks of direct classroom instruction with 45 online Spanish-learning modules through our e-textbook. Students opting to take this course will be required to complete online assignments during both their Academic and CTE cycles.** This is a semester class. NOTE: This class will not be offered to Juniors in the 2021-22 school year and beyond. *Credits: 4*

Law and the Workplace

Course #: 4350

Level: CP

This elective course is designed to introduce students to the legal system, focusing on landmark American trials, key constitutional cases, and current legal issues related to business, employment, and the workplace. Additional topics include computer law, financial crimes, contracts and business organization. The course design and approach are to learn law in a practical, relevant, and experiential way through a case-study approach. The class blends legal content with hands-on learning that allows for students to read critically, to discuss interpretations of law and to debate with the goal of helping students understand their rights and responsibilities under the laws so they can function as responsible citizens in their professional and personal lives. This course is a semester class. *Credits: 2*

Business and Entrepreneurship

Course #: 7321

Level: CP

This elective course is focused on the foundational skills necessary for students to be successful career pathway. Many students will secure coop placements with local companies in a field they wish to pursue beyond high school. In-school co-op placements are also arranged, and juniors remaining in the building have the chance to work on contracted work such as setting up social media accounts and performing bookkeeping for local businesses. Students can also pursue advanced certifications to further their employment opportunities or take the next steps to launch a product they have developed in their CTE area. This is a semester class. *Credits: 2*



Introduction to Computer Science

Course #: 2341

Level: CP

This full year math elective will introduce students to the basics of computer programming. Students will learn using Python, a relatively new and widely used programming language both in industry and academia. The concepts learned with Python are easily transferable to other popular languages such as C++ and Java. Students will use the concepts they learn to create their own programs to solve complex problems or increase the speed and efficiency of tasks performed on a computer. Topics to be covered will include basics of programming, conditional statements, loops, vectors, strings, cells, and a cursory overview of object oriented programming. The class will be largely project based, where students are given a problem or task that they need to create a program to solve. ***Credits: 4***

Sustainability Science

Course #: 3350

Level: CP

This full year lab-based course focuses on the application of science through the lens of sustainability to better understand the interrelationship between humans and their impact on the planet. After examining energy in the Earth, the structure and composition of the atmosphere, circulation of the oceans and atmosphere, and climate variations over time, students will learn about sustainable practices that are best suited to help promote a better ecological balance. Students will conduct research, analyze case studies, participate in several hands-on labs, and develop a problem-solving project using the scientific method. ***Credits: 4***

Discontinued SY20-21

- Forensic Science GRADE 11 (CP)



Grade 12 Academic Courses 2020-2021

English Options:

- English 12 (CP, ACP, H)
- A.P. English Literature and Composition

Math Options:

- Algebra III/Trigonometry (CP)
- Pre-Calculus (ACP, H)
- Calculus (H)
- A.P. Calculus AB

CTE Related:

- Career Technical Theory 12
- Anatomy & Physiology
- Computer Programming
- CTE Pathway Content Specific

Lab-Based Science Options - NOTE: A 4th year of a lab science is recommended for all students anticipating enrolling at a 4 year college/university.

- Chemistry (CP, ACP, H)
- Physics (CP, ACP, H)
- A.P. Physics
- Forensic Science (CP)

Elective Options:

- Spanish II (CP, ACP) *NOTE: MA public colleges and universities do not require two years of foreign language for students enrolled in public CVTE high school programs. See: [mass.edu/shared/documents/admissions/admissionsstandards.pdf](https://www.mass.edu/shared/documents/admissions/admissionsstandards.pdf) p.8. In addition, many MA private colleges and institutions and out of state public and private institutions do not require two years of high school foreign language, however admissions requirements at these institutions vary. Families are encouraged to preview admissions requirements on the college and university websites to plan accordingly during the course selection period.*
- Genocide Studies (ACP, H)*
- Using History to Understand Contemporary Issues (CP) *
- Accounting (CP)*
- Forensic Science (CP)



English 12

Course #: 1402, 1401, 1400

Level: Honors, ACP, CP

This course focuses on a variety of literary and informational texts that include the Western cultural philosophies of nihilism, modernism, idealism, existentialism, and magical realism, including rigorous practice in research, informational writing, and personal narrative. Students will identify critical lenses, recognize multiple themes, analyze in concrete and abstract perspectives, and evaluate multiple interpretations from secondary sources. Students will draw evidence from literary or informational texts to support their analysis, reflection, and research. Essays and discussions will relate the work to its historical circumstances, trace a symbol through a work or works, or consider a moral or philosophical question. The major works and ideas of Western literature will be addressed. *Credits: 4*

Advanced Placement English Literature & Composition Course #: 1403

Level: AP

In the A.P. English Literature and Composition course, students engage in becoming skilled readers of prose and poetry written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Through critical analysis and focused writing, students learn the interactions among a writer's purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing. The course follows A.P. curricular guidelines and prepares students for the A.P. test, given in the spring. Students should expect challenging college-level content and a workload requiring nightly preparation and independent study. The accelerated pace of A.P. coursework is designed to parallel an introductory college semester course. Students are expected to take the College Board A.P. English Literature and Composition Exam in May. College credit may be applied with a score of three or higher on the College Board exam. *Credits: 4*



NOTE: Students who have not met the Competency Determination in Mathematics by earning the equivalent of a *Proficient* score of 240 or better on the Grade 10 Mathematics MCAS will be required to enroll in Algebra III during Grade 12. For more information see:

<http://www.doe.mass.edu/ccr/epp/qa.html>

Algebra III/Trigonometry

Course #: 2400

Level: CP

This course is a continuation of concepts presented in Algebra II. It will emphasize the connection between algebra, geometry and trigonometry. The focus of this course is exponential/logarithmic functions, polynomials, trigonometric functions and trigonometric identities. ***Credits: 4***

Pre-Calculus

Course #: 2402, 2401

Level: Honors and ACP

This course addresses the Learning Standards for Precalculus and focuses on four critical areas: (1) extend work with complex numbers; (2) expand understanding of logarithms and exponential functions; (3) use characteristics of polynomial and rational functions to sketch graphs of those functions; and (4) perform operations with vectors. ***Credits: 4***

Calculus

Course #: 2412

Level: Honors

This course is for students who have successfully completed Algebra II Enhanced. The course will include a brief review of the critical concepts and skills covered in Algebra II Enhanced followed by the concepts of limit, derivative, and definite and indefinite integral. Techniques of numerical and closed form integration with applications of the definite and indefinite integrals will be studied. ***Credits: 4***

Advanced Placement Calculus AB

Course #: 2443

Level: AP

A.P. Calculus is a full year mathematics course, structured to closely resemble a first semester Calculus course in college. It is the intent of the course to develop a conceptual understanding and computational fluency in the basics of differential and integral calculus. This course will emphasize basic techniques, problem solving skills, critical thinking, and an understanding of various applications of calculus. Technology will also be emphasized as a problem-solving tool. Students will apply the techniques learned to a variety of different types of functions as well as different representations of functions, and use these to model real-world situations. The course will also introduce basic differential equations, and use them to model growth. ***Credits: 4***



Chemistry

Course #: 3402, 3401, 3400

Level: Honors, ACP, CP

This course is designed to teach students the concepts of composition, structure and properties of substances and the changes they will undergo. Topics will include the classification of matter, atomic structure, periodic table and chemical formulas, chemical reactions and gas laws. Students will utilize qualitative as well as quantitative approaches to predict outcomes and identify unknowns. Use of a scientific calculator is required. Strong math skills are recommended for the Honors Level. **Credits: 4**

Physics

Course #: 3412, 3411, 3410

Level: Honors, ACP, CP

This Physics course will introduce key concepts of the physical world including motion, energy, and electromagnetism. Hands on labs will reinforce these concepts. Measurement and problem solving including graphing and critical thinking will be introduced. Technology will be used to analyze data collected in lab activities. Use of a scientific calculator is required. Strong math skills are recommended for the Honors Level. **Credits: 4**

Advanced Placement Physics

Course #: 3413

Level: CP

A.P. Physics 1 is an algebra-based, introductory college-level physics course that will address the principles of Newtonian mechanics; work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Laboratory-based inquiry learning will develop students' scientific critical thinking and reasoning skills. There is a mandatory summer assignment. Students are expected to take the College Board A.P. Physics Exam in May. College credit may be applied with a score of three or higher on the College Board exam. (Exam is scored from 1 – 5). **Credits: 4**

Forensic Science

Course #: 3440

Level: CP

This is a lab-based elective designed to give students an in-depth look at the world of forensics. Students will be introduced to the basic application of science to the law. Students will learn how forensic scientists combine today's technology with the skills of the scientific community in order to help solve crimes. Topics covered include crime scene evaluation, fingerprinting, and DNA analysis; and the examination of current cases as they relate to these topics. **Credits: 4**



Spanish II

Course #: 6401, 6400

Level: ACP, CP

Spanish II continues and solidifies the introduction to the Spanish language and culture with more extended vocabulary and grammar concepts. Students will continue to practice reading, writing, listening, and speaking in Spanish. Students learn how to conjugate stem-changing verbs in the present tense, as well as both types of past-tense verbs. **Please note that this elective is an intensive, hybrid semester offering and will combine 45 blocks of direct classroom instruction with 45 online Spanish-learning modules through our e-textbook. Students opting to take this course will be required to complete online assignments during both their Academic and CTE cycles.** This is a semester class. Spanish I is a prerequisite. NOTE: This class will not be offered in the senior year for 2022-23 school year and beyond. ***Credits: 4***

Genocide Studies

Course #: 4481, 4482

Level: ACP, Honors

This course examines the 20th century as “the century of genocide,” beginning with the Armenian genocide, the horrors of the Holocaust, and ending with the atrocities in Bosnia and Rwanda and the violence in Darfur, the Democratic Republic of Congo, and Northern Iraq. We will consider many questions in this course: What is genocide? Where did the term come from and how has it been defined and examined over time? What conditions lead to genocide? What are the warning signs? What allows people to act in such evil ways and what causes others to stand by? How can genocide be prevented? Which genocides have been emphasized, and which have been overlooked? We will explore these and other ideas through a historical lens, with critical review of primary sources and research, and through a literary lens, with first-hand accounts and survivor testimony. This course is a semester class. ***Credits: 2***

Using History to Understand Contemporary Issues

Course #: 4410

Level: CP

The 21st century has brought with it unprecedented access to information through various media sources. This presents an amazing opportunity for students to explore contemporary topics with an eye toward critical discernment of sources, and the agendas and motives behind them. This course will actively explore complex issues in our contemporary society through the prism of history. Topics include: globalism and nationalism, bias in media, the Culture War, economic trends of the modern world, and major social issues and their change over time. In order to become better-informed citizens, students will practice evaluating various sources of media and bias. This will be accomplished in a variety of ways including Socratic seminar, project-based learning, and facilitated debates and oral presentations. This course is a semester class. ***Credits: 2***



Accounting

Course #: 2460

Level: CP

Accounting is an applied mathematics course where students learn about the operational principles necessary for success in the workplace. Topics include basic accounting procedures, debits and credits, customer needs assessment, investment activities, analyzing, evaluating, and creating financial reports, and technology applications for operating systems and budgets. Building upon these topics, students will conduct a financial analysis of a real-world business organization. This is a semester class. ***Credits: 2***

Forensic Science

Course #: 3440

Level: CP

This full year lab-based course is designed to give students an in-depth look at the world of forensics. Students will be introduced to the basic application of science to the law. Students will learn how forensic scientists combine today's technology with the skills of the scientific community in order to help solve crimes. Topics covered include crime scene evaluation, fingerprinting, and DNA analysis; and the examination of current cases as they relate to these topics. ***Credits: 4***

Discontinued SY20-21

- Modern United States History (CP)
- Introduction to Psychology (CP)