

Course Description Booklet

English

English I (College Prep)

Grade 9

5 credits

This course is a college preparatory class for first-year high school students which will provide a continuation of instruction in English skills and will prepare the students for success in future courses. Students will build a solid foundation of knowledge, skills, and strategies that will be refined, applied and extended as students engage in more complex ideas, texts, and tasks. Students will be introduced to various genres of classical and contemporary narrative and informational texts, while developing and enhancing their grammar and writing skills.

English I (Honors)

Grade 9

5 credits

This course is an Honors college preparatory class for first-year high school students that covers the requirements of English 9. It is designed with the college bound student in mind, focusing on organization, study and test taking skills in addition to the study of genres in literature. Students of English 9 Honors will become proficient in reading comprehension, vocabulary, listening, speaking, and writing through their study of literature. Students will build a solid foundation of knowledge, skills, and strategies that will be refined, applied, and extended as students engage in more complex ideas, texts, and tasks. Students will be introduced to various genres of classical and contemporary narrative and informational texts, while developing and enhancing their grammar and writing skills. Much of the course is reading and writing intensive with much of the reading taking place outside of the classroom. Use of technology as a learning platform inside and outside of class is required. The successful honors English 9 student is highly self-motivated, accountable for his performance, and eager to apply constructive criticism from his instructor to further his reading, writing, speaking, listening, presentation, and technology skills.

English II (College Prep)

Grade 10

5 credits

This course is designed to provide 10th grade students with an expanded knowledge of subjects and concepts introduced in the English 9 class. Various mediums of the language will be utilized, with a general emphasis on literary form. Genres including poetry, drama, the short story, and novels will be examined in the contexts of comprehension, form, grammar, and thought processes. Students will develop the writing skills necessary to present critical thinking on each of these issues. Technology will be an integral part of the learning and writing process. Also, vocabulary and preparation for the NJSL-ELA/PSAT will be included. The use of technology, both as a learning resource and in writing will be implemented on a regular basis. Further application of rhetoric, writing, researching, and regular use of the Internet will continue to develop essential college and career readiness skills. Preparing and presenting oral projects independently and collaboratively will continue to build confidence and help students explore their career focus.

English II (Honors)
Grade 10
5 credits

Prerequisites: 90+ average in CP English I with teacher recommendation OR 80+ in Honors English II with teacher recommendation AND summer reading assignment

This course is an Honors level course designed to provide 10th grade students with an expanded knowledge of subjects and concepts introduced in the English 9 class. Critical competencies in all areas will be developed with strong emphasis on the critical analysis of literary forms. The course will be genre based covering a variety of themes, and writing will be explored as a process. Students will be encouraged to work independently and collaboratively. The course will [provide the student with an overview of literary genres of varying length and complexity. These forms will include essays, biographies, autobiographies, poetry, drama, the short story, and the novel. These genres will be presented, looked at, and analyzed in thematic, social, and historical contexts. Also, vocabulary and preparation for the NJSL-ELA/PSAT will be included. Reading, writing, speaking, listening, presenting, collaborative group work, and self-reflection remain the focus of student work. As is the standard for learners in Honors English II, the successful Honors English 10 student is highly self-motivated, accountable for their performance, and eager to apply constructive criticism from his instructor to develop skills. Digital, media and global literacies will serve as a pillar for the course.

English III (College Prep)
Grade 11
5 credits

During the junior year of English, students will experience a range of *American Literature*, which is a study of the major literary topics and themes across the history of the United States from pre-colonial times to present day. The ultimate goals for this class is to expose students to American culture, heritage, and history through study of our literature; and, to continue advancement towards more mature, refined writing skills. Students read and analyze works, including poetry, short stories, novels, drama, and nonfiction. The literary works provide opportunities for critical writing, creative projects, and collaborative discussions. Students will also practice NJSLA skills in terms of grammar, vocabulary, usage, mechanics and comprehension. This is an important year for each student in preparing for college readiness. The Research Paper will focus on the research and communication of a 'Controversial Topic' of the student's choosing. Preparing and presenting oral projects independently and collaboratively will continue to build confidence and help students explore their career focus. Digital, media and global literacies will serve as pillars of the course.

English III (Honors)
Grade 11
5 credits

Prerequisites: 90+ average in CP English II with teacher recommendation OR 80+ in Honors English II with teacher recommendation AND summer reading assignment

This course is intended for students who have been identified as being capable of succeeding at an advanced level of English and whose pace is accelerated. There is a greater demand and expectation that students work independently both inside and outside of class and possess above proficiency in reading, writing and critical thinking skills. There are also a greater number of required writing assignments. During the junior year of English, students will experience a range of *American Literature*, which is a study of the major literary topics and themes across the history of the United States from pre-colonial times to present day. The ultimate goals for this class is to expose students to American culture, heritage, and history through study of our literature; and, to continue advancement towards more mature, refined writing skills. Students read and analyze works, including poetry, short stories, novels, drama, and nonfiction. This is an important year for each student in preparing for college readiness. This contextual overview will deepen appreciation for the written word as well as prepare students to be active, civic-minded adults. The art and study of rhetoric will continue to be a focus as will varying types of writing. Use of a technology learning platform is required. As is the standard for learners in Honors English III, the successful honors English 11 student is highly self-motivated, accountable for performance, and eager to apply constructive criticism from the instructor to further their reading, writing, speaking, listening, presentation, and technology skill and sharpen essential college and career readiness skills. Digital, media and global literacies will serve as pillars of the course.

English IV (College Prep)**Grade 12****5 credits**

This course provides a survey of World Literature, and incorporates elements of vocabulary, grammar and writing mechanics. Discussion of stories and activities will focus on understanding and drawing connections between culture and texts of varied time periods around the world. By doing so we will be able to see how each story or writing is a stepping stone for the future. We will also spend considerable time preparing and practicing real world skills for use in both the professional world as well as the collegiate world. Through interactive assignments, cross-curricular projects, and individualized instruction, students can apply literary terms, themes, and concepts to their own lives and develop life-long learning techniques and foster further academic exploration. Digital, media and global literacies will serve as pillars of the course and assist in preparing students for college and career after high school.

English IV (Honors)**Grade 12****5 credits**

Prerequisites: Summer reading assignment; Honors level requires a 90+ average and teacher recommendation.

In this honors level course, students will be completing a detailed focus on World Literature, paying special attention to the historical and social context of stories, mythology, literary terms, and authors. Students will learn to analyze stories past surface details and evaluate what techniques authors use and how they impact the work. We will also spend considerable time fine-tuning the writing process, editing, broadening vocabulary and exploring professional and collegiate applications. The reading for this course will be rigorous and students are expected to master their time-management as well as continuing reflective and pertinent analysis of texts. As students prepare for life outside the high school classroom, they will use this integrated experience, based on World Literature, in order to improve upon all language arts components. This course will follow a structure similar to the college classroom and encourage independent thought and self-reliance. Digital, media and global literacies will serve as pillars of the course and assist in preparing students for college and career after high school.

Advanced Placement English Literature & Composition (AP)**Grade 12****5 credits**

Prerequisites: Final grade of A in Honors English 11 and completion of summer homework

The AP English Literature and Composition course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, and symbolism. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. The AP English Literature and Composition course aligns to an introductory college-level literature and writing curriculum. Students develop the skills of literary analysis and composition as they repeatedly practice analyzing poetry and prose, then compose arguments about an interpretation of a literary work. Challenging summer homework will be required for all students taking this course. Summer Homework will be a significant portion of students' quarter one grades. This AP course will count as a 4th year English course. Failure will result in summer school.

Health and Physical Education

Health & Physical Education I

Grade 9

5 credits

The freshman year course includes health and wellness, fitness concepts, basic nutrition, personal care and body systems, anatomy of male and female reproductive system, the lifecycle, birth process, family planning and an introduction to sexually transmitted infections including HIV/AIDS will be discussed. The Muscular, Skeletal and Respiratory Systems are also covered in Health I as well as organ donation and domestic violence will be discussed.

Health & Physical Education II

Grade 10

5 credits

This course enables the student to examine their lifestyle, select goals, and make plans to achieve and maintain optimum health. Topics such as tobacco use, narcotics, alcohol, illegal drugs and recovery from addiction and codependency will also be discussed with specific correlation to the consequences of these activities in relation to being a responsible driver. Drivers Education integrated course is designed to help novice student drivers develop the knowledge, skills, and attitude to become safe, low-risk, responsible drivers. Students learn how to identify, predict, decide, and execute in a manner that develops the behaviors and mental skills necessary to manage risks. The course provides basic information on the operation of a motor vehicle and the rules of the road. Class responsibilities involved in obtaining a New Jersey Driver's license.

Health & Physical Education III

Grade 11

5 credits

This level will take on an individual focus with students taking on an active role in preparing for their future. A strong emphasis will be placed on goal setting and incorporating an individualized plan for students to accomplish both short-term and long-term goals. Students will set goals for themselves personally, educationally, professionally and financially and will develop a strategy to accomplish those goals. The curriculum will also serve to extend units specifically dealing with mental and emotional aspects of health. The stresses and challenges that life has to offer will be brought to light as students begin to reflect on what they want for their future and how they will deal with the realities and obstacles of life after high school.

Health & Physical Education IV

Grade 12

5 credits

Students will participate in a hands-on format throughout much of this course. All areas of CPR, AED and First Aid, will be demonstrated. Students will participate in "mock" situations, which will allow them to think through an emergency situation and act appropriately as a first responder. In addition, this course will discuss family planning, consequences of teen pregnancy, sexual assault prevention and will also address sexually transmitted infections including HIV/AIDS.

Mathematics

Algebra I (College Prep)

Grade 9

5 credits

Algebra I is a fundamental introduction to the use of Algebra as a problem solving and quantitative tool. Numbers are introduced as objects through the use of sets, operations, and basic manipulations of those objects represented by variables, to be used to answer questions read from real world applications. Students will strengthen their analytical writing skills by accurately describing the solutions to those problems. These concepts lead into techniques of graphing and working with systems of linear equations and inequalities. Exponents and powers greater than one will be covered through the use of quadratic functions and their graphs. Students can look forward to probability, sequences, and series, and counting methods being introduced through fun and exciting games. This course is designed to begin preparing students for standardized math tests such as the PSAT, SAT & NJSLA.

Algebra I (Honors)

Grade 9

5 credits

Honors Algebra I is a more in depth and faster-paced introduction to the use of Algebra as a problem solving and quantitative tool. Students will strengthen their analytic writing skills by accurately describing the solutions to these problems with in-depth explanations. These concepts lead into advanced techniques of graphing and working with multiple systems of linear equations and inequalities. Exponents and powers greater than one will be covered through the use of quadratic functions and their graphs. Exponents and powers greater than one will also be covered through advanced manipulations of variables, using exponential rules. Radical and rational expressions will be covered through the use of one's knowledge of exponents and quadratics. Students will look forward to probability, sequences, series, and counting methods being introduced through fun and exciting games. This course is designed to begin preparing students for standardized math tests such as the PSAT, SAT & NJSLA.

Geometry (College Prep)

Grade 10

5 credits

Prerequisite: Algebra I

Geometry is designed to use methods of reasoning to solve problems. Students will learn about angles and segment relationships, proofs, parallel and perpendicular lines, congruent triangles, quadrilaterals, similarity, right triangles, trigonometry, transformations, area, surface area, volume, and circles. Students will be able to apply their algebra skills to the geometric properties. This course is designed to begin preparing students for standardized math tests such as the PSAT, SAT & NJSLA.

Geometry (Honors)

Grade 10

5 credits

Prerequisite: Honors Algebra 1. Honors level requires a B in Honors Algebra 1 and teacher recommendation or a 90+ in Algebra I.

Honors Geometry is designed to give the advanced student the opportunity to study the topics of geometry at more depth and at a faster rate. Emphasis is placed on traditional Euclidean geometry and coordinate geometry, geometric properties, spatial relationships, angle relationships, deductive and inductive reasoning and proofs. This course is designed to use methods of reasoning to solve problems. Students will learn about angles and segment relationships, proofs, parallel and perpendicular lines, congruent triangles, quadrilaterals, similarity, right triangles, trigonometry, transformations, area, surface area, volume, and circles. Students will be able to apply their algebra skills to the geometric properties. This course is designed to begin preparing students for standardized math tests such as the PSAT, SAT & NJSLA.

Algebra II (College Prep)
Grade 11
5 credits
Prerequisite: Algebra I and Geometry

Algebra II is a continuation of the skills learned in Algebra I. Students will be introduced to the concept of a number as an object, and the use of functions as a framework that builds a relationship between numbers of one set to numbers of another set. Topics from Algebra I such as exponents and powers, quadratic functions, and their graphs will be expanded upon. New topics will include an intensive examination of logarithmic, trigonometric, and exponential functions. Additional discussions will include probability and counting, and the summations and manipulations of sequences and series. Student writing and reading skills will be strengthened through analytical projects, which are both challenging and enjoyable. This course is designed to begin preparing students for standardized math tests such as the SAT & NJSLA.

Algebra II (Honors)
Grade 11
5 credits
Prerequisite: Algebra I and Geometry. Honors level requires teacher recommendation and a B in Honors Geometry or at least a 90+ in Geometry.

Honors Algebra II is designed to give the more advanced student the opportunity to study the topics in an Algebra II course at an accelerated and more in-depth level. Topics include quadratic equations, rational expressions, irrational and complex numbers, functions, and sequences and series. This course is designed to begin preparing students for standardized math tests such as the SAT & NJSLA.

Pre-Calculus (College Prep)
Grade 11 or 12
5 credits
Prerequisite: Geometry and Algebra II

Pre-Calculus is a continuation of the more advanced concepts of Algebra and Geometry integrated with the study of analytic and triangle trigonometry. The course is designed for students with a strong background in mathematics. Functions are explored in great detail including polynomial, rational, logarithmic, trigonometric and inverse trigonometric. Students can then focus on understanding the relationship and behavior of the function, in preparation for the advanced study of calculus. Students further explore functions in real-life situations, including science, economics, biology and navigation. Skills in analysis, reasoning and making connections are stressed throughout the course. This course is a traditional fourth course pathway for the NJSL-M standards, and all standards covered are at a reinforcement level and advanced level, as mastery was expected in the prerequisite courses.

Pre-Calculus (Honors)
Grade 11 or 12
5 credits
Prerequisite: Geometry and Algebra II. Honors and Dual Enrollment level requires a B average in Honors Algebra II and teacher recommendation.

Honors Pre-Calculus will focus intense study of algebraic functions (polynomial, rational, radical) and transcendental functions (exponential, logarithmic). Students will be required to solve problems graphically, analytically, and numerically. Students will study ratios, functions, identities, radian measurements, vectors, polar coordinates, inverse functions, and the theory of equations. It allows students to discover the relationships between the parts of a triangle, trigonometric functions, and practical problems relating to these functions. Students enrolled in Pre-Calculus have the option to also be enrolled in a dual credit program available through the Richard Stockton College of New Jersey. This course provides for a solid transition to the study of Calculus.

Advanced Placement Calculus AB (AP)

Grade 12

5 credits

Prerequisite: Honors Pre-calculus with a 90 or above average and teacher recommendation

Advanced Placement Calculus AB is comparable to calculus courses in colleges and universities. It is expected that students who take an AP course in calculus will seek college credit, college placement or both from institutions of higher learning. The course teaches all topics associated with Functions, Graphs and Limits; Derivatives; and Integrals. The course provides students with the opportunity to work with functions represented in a variety of ways (graphically, numerically, analytically, and verbally) and emphasizes the connections among these representations.

Science

Biology (College Prep)

Grade 9

5 credits

In Biology, students will develop an understanding of the fundamental principles that characterize living organisms. Students will explore biological science as a process, cell structure and function, genetics, evolution, and the ecological roles of living organisms. The student will be involved in various hands-on activities and labs, which will stimulate interest in the subject matter. Activities will include laboratory exercises, field experiences, use of electronic media, research, writing lab reports, and designing presentations. Through these activities, students will acquire science skills necessary in understanding the process of life and will be prepared for the New Jersey Student Learning Assessment – Science (NJSLA-S).

Biology (Honors)

Grade 9

5 credits

Honors Biology is designed for the advanced student who is interested in a comprehensive biology course that is fast-paced and explores in-depth content. Students will develop an understanding of the fundamental principles that characterize living organisms. Students will explore biological science as a process, cell structure and function, genetics, evolution, and the ecological roles of living organisms. Independent research and project work will be emphasized. Through hands-on learning activities, students will acquire science skills necessary in understanding the process of life and will be prepared for the New Jersey Student Learning Assessment – Science (NJSLA-S).

Chemistry (College Prep)

Grade 10

5 credits

Prerequisite: Biology

Chemistry is a laboratory and inquiry-based science course in which students investigate the composition of matter and the physical and chemical changes it undergoes. Computer-based and traditional laboratory techniques will be used to obtain, organize and analyze data. Conclusions are developed using both qualitative and quantitative procedures. Topics include, but are not limited to: acid and bases, atomic structure, chemical bonding, chemical equilibrium, chemical quantities, chemical reactions, environmental chemistry, gas laws, properties of matter, the periodic table, scientific measurements, solutions, and stoichiometry. Activities include laboratory exercises, field experiences, use of electronic media, and topical events. These will be integrated with concurrent academic and vocational programs. Students will acquire the science skills necessary for understanding chemistry and how it applies to the real world. This course prepares students for the New Jersey Student Learning Assessment- Science (NJSLA-S).

Chemistry (Honors)

Grade 10

5 credits

Prerequisite: Honors level requires a B average in Biology and teacher recommendation.

Honors Chemistry is designed to give the more advanced student the opportunity to study the topics of chemistry, what they are composed of, how their properties are related to their composition, and how one substance interacts with another. Computer-based and traditional laboratory techniques are used to obtain, organize and analyze data. Conclusions are developed using both qualitative and quantitative procedures. As an Honors course, the pacing will be quicker than the CP level and the material will go into more depth. Also covered are the fundamental theories and principles involved in all chemical reactions through a series of lab experiments. This course prepares students for the New Jersey Student Learning Assessment- Science (NJSLA-S).

Physics (College Prep)

Grade 11

5 credits

Prerequisite: Chemistry & Biology

Physics provides students with a scientific explanation of the physical world and is the study of matter and energy. In this course, computer-based and traditional laboratory techniques are used to obtain, organize and analyze data. With this hands-on approach, students will utilize laboratory tools to perform scientific inquiry and student-centered learning and perform laboratory experiments to discover the mathematical relationships that describe physical phenomena. The focus will center upon lab activities and mathematics to describe and predict the behavior of objects of all sizes, from electrons to planets in the solar system. Topics will include motion, forces, energy, waves, light, sound, electricity, and magnetism. This course prepares students for the New Jersey Student Learning Assessment- Science (NJSLA-S).

Physics (Honors)

Grade 11

5 credits

Prerequisite: Biology & Chemistry. Must have had a B in Geometry (CP or Honors).

Honors Physics is geared to the more advanced students in math and science who are planning a career in engineering or similar pursuits. In this class, the focus will center upon lab activities and mathematics to describe and predict the behavior of objects of all sizes, from electrons to planets in the solar system. Topics will include motion, forces, energy, waves, light, sound, electricity, and magnetism. This course prepares students for the New Jersey Student Learning Assessment- Science (NJSLA-S).

Advanced Placement Physics 1 (AP)

Grade 12

5 credits

Prerequisite: AP level requires an A average in Honors Algebra II or concurrently taking Honors Algebra II, Honors Physics Recommended.

AP Physics I is designed to be equivalent to a first year college course in Physics. Students can obtain college credit for this course by scoring well on the AP exam in May. AP Physics I is the second of a two- year sequence that is designed to prepare students to take the AP Physics I examination. This course emphasizes problem solving in the context of the principles of physical laws and principles as well as the ability to apply that knowledge and skill to phenomena in either an experimental or theoretical setting. Great attention is given to strengthening and reinforcing the natural connections between the sciences and mathematics; these same skills will be developed theoretically and through hands-on applications. Students will be involved in problem solving activities individually and collaboratively.

Social Studies

United States History I (College Prep)

Grade 9

5 credits

United States History I traces the development of the United States from colonization through the Civil War with a focus on the Atlantic World, European Colonization, Growth of the Colonies, the Road to Independence, the Constitution, Slavery, and the Civil War. Students will be able to apply historical concepts of change and continuity over time, and consider turning points, cause and effect, relationships between the past and present and how this might affect the future. Students will be able to explain how the historical development of the United States continues to take place in a global context and understand and define the individual responsibilities and duties associated with United States citizenship.

United States History I (Honors)

Grade 9

5 credits

Honors United States History I course encourages students to participate in an in-depth study of American history and the evolution of the U.S. Constitution through the Civil War. This class covers the political, social, economic, and cultural aspects of America's history, and examines events from colonization to approximately 1900. Students will be able to explain how the historical development of the United States continues to take place in a global context and understand and define the individual responsibilities and duties associated with United States citizenship. This advanced course is geared more towards independent learners.

United States History II (College Prep)

Grade 10

5 credits

This course will examine modern American history, roughly 1870 to the present, through the following themes: American democracy, civil rights and liberties, economic development, conflict and cooperation, geography and environment, the influence of technology, the individual and family life, humanities and religion, cultural diversity and the role of the US in world affairs.

United States History II (Honors)

Grade 10

5 credits

This course will examine modern American history, roughly 1870 to the present, through the following themes: American democracy, civil rights and liberties, economic development, conflict and cooperation, geography and environment, the influence of technology, the individual and family life, humanities and religion, cultural diversity and the role of the US in world affairs. In addition, students will actively participate and make valuable contributions to project-based and flipped class learning opportunities, including the examination of primary and secondary sources and digital, media and global literacy resources such as videos, podcasts, and historical organizations and their curated materials. Throughout this course, emphasis will be placed on critical thinking, reading and writing skills.

World Cultures (College Prep)

Grade 11

5 credits

World Cultures is designed to follow the evolution of human beings from their origins to the establishment of major world empires. This course's focus is to highlight the contributions and cultures of major world civilizations and their effects on modern-day civilizations. A focus on reading and writing will be implemented in this course along with an emphasis on civics, sociology, philosophy, and geography. Upon successful completion of this course, students will have gained a unique perspective for the contributions made by diverse ethnic and racial groups living around the world. Students will demonstrate an understanding through discussion and assessment of the multiple cultures, political systems, and societal norms that make up the overall scope of the world today.

World Cultures (Honors)**Grade 11****5 credits**

Honors World Cultures is designed to follow the evolution of human beings from their origins to the establishment of major world empires. This course's focus is to study the contributions and cultures of major world civilizations and their effects on modern-day civilizations. A focus on reading and writing will be implemented in this course along with an emphasis on civics, sociology, philosophy, and geography. In addition, students will actively participate and make valuable contributions to project-based and flipped class learning opportunities, including the examination of primary and secondary sources and digital, media and global literacy resources such as videos, podcasts, and historical organizations and their curated materials. Throughout this course, emphasis will be placed on critical thinking, reading and writing skills.

World Languages

Spanish I

Grade 9

5 credits

Spanish I is a student-centered introductory course designed to teach the student conversational Spanish. The course promotes communication in the target language. The focus areas are communication, comprehension, reading, writing and understanding the basics of the Hispanic culture. The course provides a variety of small and large group interactive activities such as: dialogues, games, internet searches and innovative cultural projects and presentations. Student input and prior knowledge is included in the teachings of Spanish I.

Spanish II

Grade 10

5 credits

Spanish II will be open to students who have successfully completed Spanish I. Students will use the Spanish language to engage in conversation, understand and interpret spoken and written language, present information, concepts and ideas while making connections with other disciplines, and compare the language/culture studied with their own. Students in this course will communicate in the target language. Students will also comprehend spoken and written information, concepts and ideas in the target language and link the information, concepts and ideas to other content areas.

Spanish III

Grade 11

5 credits

Spanish III will be open to students who have successfully completed Spanish II. The course of study will continue to build on vocabulary, reading and writing. The students will read short fables and stories which will help them to understand the idiosyncrasies of Hispanic culture. Spanish III will continue to familiarize the student with the culture, geography, customs, holidays, and economies of Spanish-speaking countries while further building, listening, speaking, reading and writing skills. Assessments vary from oral assessments, writing and listening tests, quizzes, and projects.

Spanish IV

Grade 12

5 credits

Spanish IV is a continuation of study in the Spanish Language and culture utilizing situational conversation, technology, literature, art, music, and textbooks to develop one's ability to communicate. Spanish IV continues to build on the skills and knowledge learned in Spanish I, II, and III. The student will be able to converse with even more detail in a variety of real- life situations. Spanish IV continues to use thematic units based on real-life situations. Assessments vary from oral, written, and listening tests, quizzes, and projects.

French I

Grade 9

5 credits

French I is a student-centered introductory course designed to teach conversational French. Students will both speak and comprehend the French language, the culture of France, as well as other French speaking countries. Direct hands-on creative projects that incorporate writing in French and exploring French culture will be performed (and fun!!). In addition, authentic French music and literature will be implemented as learning tools. The world of the French speaking countries will also be explored via the Internet through various projects. At the completion of this course the students will be able to engage in basic conversations, provide and obtain information, express feelings and emotions and question and exchange opinions in the target language.

French II**Grade 10****5 credits**

French II will be a continuation of French 1, where the instructional emphasis remains placed on actual communicative skills. Students will explore various topics of interest to them via the French language while receiving in depth instruction regarding speaking, listening/comprehending, writing, reading, and culture. At the completion of this course the students will be able to communicate in French using formal and informal vocabulary in multiple sentence strings. They will comprehend complex spoken French, while acquiring new knowledge and information from comprehensive and authentic texts and projects.

French III**Grade 11****5 credits**

French III will be a continuation of French 1 and 2, where the students will continue to converse and query in the French language on a daily basis. Increased emphasis is now placed on the basic mastery of the target language through complex instructional delivery. Conversational and project activities are now accomplished on an advanced level with the intent to accelerate the students' acquisition of knowledge of the language and culture. All students are brought up to the experience of French 3 by the end of the academic year. At the completion of this course, the students will be able to converse successfully in complex sentences and queries expressing their thoughts and opinions to others. They will be able to comprehend intelligent discourse between others in the language and as well as procuring a deep understanding of the culture of French speaking countries.

French IV**Grade 12****5 credits**

French IV is a continuation of French 3, where the students continue to develop their acquisition of the language through speaking, listening/comprehending, writing, reading, and culture. Heightened emphasis is now placed on the students' self expression. Possessing the fundamentals of basic language tools, the students now acquire the mechanisms that will allow them to express themselves in a realm of real world situations geared inherently to their contextual arena. All students are brought up to the experience of French 4 by end of the year. At the completion of this course the students will be able to communicate in French using formal and informal vocabulary in advanced, multiple sentence strings. They will be able to query on a variety of subject matter and respond to such questioning. They will comprehend complex spoken French, while continuing to acquire new knowledge and information from comprehensive and authentic texts and projects.

ASL I**Grade 9****5 credits**

ASL I is an introductory course in a total voice-off environment. The use of body language, posture, facial expressions, signing space, and fingerspelling will be strongly emphasized. In this course, students will learn concrete concepts in applicable role playing activities and continue to gain an in-depth understanding of Deaf Culture. This will be done through meet and greets with presenters (members of the Deaf community), and field trips (if applicable). Students will be introduced to common ASL practices, perspectives, and behavior patterns of the Deaf community.

ASL II**Grade 10****5 credits**

The ASL level 2 course is a continued study of ASL in a total voice-off environment. The use of body language, posture, facial expressions, signing space, and fingerspelling will be strongly emphasized. In this course, students will learn how to move from concrete concepts to more abstract concepts; as well as more complex grammatical structures of ASL. Students will participate in role playing activities and continue to gain an in-depth understanding of Deaf Culture. This will be done through meet and greets with presenters (members of the Deaf community), field trips (if applicable), and

ASL chats at various locations. Students will also be able to demonstrate fluency in ASL, understand the common practices, perspectives, and behavior patterns of the Deaf community.

Electives

Advanced Placement Calculus AB (AP)

Grade 12

5 credits

Prerequisite: Honors Pre-calculus with a 90 or above average and teacher recommendation

Advanced Placement Calculus AB is comparable to calculus courses in colleges and universities. It is expected that students who take an AP course in calculus will seek college credit, college placement or both from institutions of higher learning. The course teaches all topics associated with Functions, Graphs and Limits; Derivatives; and Integrals. The course provides students with the opportunity to work with functions represented in a variety of ways (graphically, numerically, analytically, and verbally) and emphasizes the connections among these representations.

Advanced Placement English Literature & Composition (AP)

Grade 12

5 credits

Prerequisites: Final grade of A in Honors English 11 and completion of summer homework

The AP English Literature and Composition course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, and symbolism. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. The AP English Literature and Composition course aligns to an introductory college-level literature and writing curriculum. Students develop the skills of literary analysis and composition as they repeatedly practice analyzing poetry and prose, then compose arguments about an interpretation of a literary work. Challenging summer homework will be required for all students taking this course. Summer Homework will be a significant portion of students' quarter one grades. This AP course will count as a 4th year English course. Failure will result in summer school.

Advanced Placement Physics 1 (AP)

Grade 12

5 credits

Prerequisite: AP level requires an A average in Honors Algebra II or concurrently taking Honors Algebra II, Honors Physics Recommended.

AP Physics I is designed to be equivalent to a first year college course in Physics. Students can obtain college credit for this course by scoring well on the AP exam in May. AP Physics I is the second of a two- year sequence that is designed to prepare students to take the AP Physics I examination. This course emphasizes problem solving in the context of the principles of physical laws and principles as well as the ability to apply that knowledge and skill to phenomena in either an experimental or theoretical setting. Great attention is given to strengthening and reinforcing the natural connections between the sciences and mathematics; these same skills will be developed theoretically and through hands-on applications. Students will be involved in problem solving activities individually and collaboratively.

Art History **Grade 11 or 12** **5 credits**

An art history course will provide an understanding and knowledge of architecture, sculpture, painting, and other art forms within diverse historical and cultural contexts. Students will learn to look at works of art critically, with intelligence and sensitivity, and to analyze what they see. We will include in this course the direct study of original works of art in local collections. Local architecture will be studied first hand when available. The time span will cover the Ancients, Oceania, and global Islamic tradition and deal with the Renaissance to the present. Assessments will be through multiple-choice questions, long and short essay questions and comparisons of works of art. The students will reflect an understanding of elements of art, terminology and technical processes as well as works of art in context.

Aquatic Science **Grade 10, 11 or 12** **5 credits**

Prerequisite: Successful completion of Biology and Chemistry with a final grade of “C” or better, or concurrent enrollment in Chemistry.

In this challenging course, students study the interactions of biotic (living things) and abiotic (non-living) components in aquatic environments, including impacts on aquatic ecosystems and sustainability. Investigations and field work in this course may emphasize various areas of freshwater aquatic science depending primarily upon the natural resources available for study near the school. Students who successfully complete Aquatic Science will acquire knowledge about a variety of aquatic ecosystems, conduct investigations and observations of aquatic environments, work collaboratively with peers, and develop critical-thinking and problem-solving skills.

Botany & Entomology **Grade 10, 11 or 12** **5 credits**

The botany and entomology class is a complete review of most lifeforms on the planet. The evolutionary history of plants and fungi will be discussed as well as how humans use them to live. Topics will also include the major animal groups including, arthropods (insects), echinoderms (spiny skin animals), fish, amphibians, reptiles, birds and mammals. The evolutionary history of each will be covered as well as how they are related, along with the benefits humans get from each group.

Business Math **Grade 11 or 12** **5 credits**

Prerequisite: Algebra 1, Geometry, Algebra 2.

This course focuses on mathematical functions (using whole numbers, fractions, decimals, and percents) that are required to function in today’s business world as well as to handle personal finance. Students will be able to understand, solve, and functionally apply basic mathematical concepts. They will become familiar with bank services, payroll, simple and compound interest, loan calculations, taxes, insurance, depreciation, balance sheets, business statistics, as well as a variety of technical mathematical techniques for different professions and trades.

Creative Writing **Grade 11 or 12** **5 credits**

This course in the writing of poetry and the short story, uses a workshop format. Works by other writers are studied in the light of basic principles of form: Including parodies, spoofs, dramatic writing and soap opera.

Environmental Science **Grade 11, 12** **5 credits**

The curriculum is a survey of the vast body of knowledge known as environmental science. The goal of this course is to introduce students to major concepts including earth and atmospheric structure, matter and energy in ecosystems, human impacts on the environment, food as a resource, waste management, and population growth. Students will

explore environmental and sustainability concepts. Activities will include laboratory exercise, field experiences, electronic media, research, writing lab reports and designing presentations. This will include how humans impact and interact with the environment and what the world's future environments might look like. The class structure is a mixture of hands-on projects and building as well as using videos and interactive media to explore different environmental concepts.

Green Engineering

Grade 10, 11 or 12

5 credits

Green Engineering is an elective with course work based in research, modeling, projects, and presentations. Topics include solar technology, wind energy, electricity generation, alternative transportation and fuels, sustainability, green building, home efficiency, space colonization, artificial technology and more. In this course, our goal is to understand the current state of technological innovation in these fields and how that will affect our future. Such an understanding is vital to success in a wide variety of careers and business investments.

Introduction to Fashion Design

Grade 10, 11 or 12

5 credits

Introduction to Fashion Merchandising and Apparel Development will promote critical thinking in students in the field of Fashion and Design with focus on career awareness, garment care and construction, consumer studies, technology and history. The skills and knowledge will be obtained through class instructional demos, hands-on application, individual research and class collaborations.

Introduction to Oceanography (Dual Enrollment)

Grade 11, 12

5 credits

Prerequisite: Completion of Biology and Chemistry with a final grade of B or better.

This course is a dual enrollment course in correlation with Stockton University. Students will be provided with an introduction to the chemistry, geology, physical and biological processes of the world's oceans, marginal seas, and coastal zones. The multidisciplinary character of oceanography is stressed. Fundamental principles in all disciplines are introduced. The goal of this course is an integrated understanding of how the ocean works.

Military Leadership

Grade 11 or 12

5 credits

This course is an introduction to the United States military to include all branches of the United States military. It includes an overview of the military's history, missions, and organization from its inception to the present. The historical missions segment will reinforce studies in American History from 1776 through modern times by tracing themes such as weapons, uniforms, espionage, and the role of civilians through different wars. This course also covers leadership styles and case studies in military leadership.

Mythology Ancient & Modern

Grade 11 or 12

5 credits

Myths are our first stories- they show us who we were, who we are and who we can become. Both in the myths of the ancients, as well as the myths we create today, we fight our monsters and triumph. Whether we are the hero striking off the heads of the Hydra, battling the monsters of Ragnarok, fighting evil forces such as Orcs, Sith or evil wizards- we look for ourselves in stories. These are our adventures, our quests and our 'New Hope'. Together we look back at the stories, legends and fairytales of the Greeks, Egyptians, Japanese and Norse- - then seek out proof of Cryptids such as Bigfoot, the Jersey Devil and the Loch Ness monster--- and finally venture forward into the Middle-Earth of Lord of the Rings, galaxies of Star Wars, monster hunts of the Witcher and the houses of Hogwarts.

New Medias and Digital Technologies

Grade 10, 11 or 12

5 credits

In this course, students will explore different technologies, social media platforms, and information validity (are deep fakes and fake news the future?), future technologies, coding, and makerspace skills (makerspace skills include tool skills, construction skills, sewing, 3D Printing, Do-it-yourself projects and more). The class structure is a mixture of hands-on projects and building as well as using videos and interactive media to explore different technology concepts.

Peer Leadership

Grade 11 or 12

5 credits

The Peer Leadership program provides upperclassmen with an opportunity to work with freshmen as mentors, helping the ninth grade students with their transition to high school, introducing them to extracurricular and social opportunities, and discussing moral and ethical issues. The goal of the Peer Leadership program is to provide a platform for the older students in our community to model and cultivate positive character traits. Peer Leaders may also be called upon to serve in other leadership capacities for Cape May Tech as representatives at different events. ***Enrollment in this class is competitive. Students must apply for the class through Ms. Miller and complete an interview process. The class limit is 24.***

Psychology

Grade 11 or 12

5 credits

This course is designed to help students learn the logic of psychology. Everything in this course will in some way relate to improving the understanding of, and thinking critically about, psychological principles, theories, practice, and application. The primary goal is for students to learn to think as a psychologist would think. The course will focus on different types of psychologists, the different schools of psychological thought, and the varying work that is done by psychologists. The course will also focus on psychological processes, both conscious and unconscious, which influence the behavior and thinking of human beings.

Public Speaking

Grade 11 or 12

5 credits

This course is designed to offer students the opportunity to organize and prepare public speaking assignments. In doing so, students are prepared for real world applications from interviews to career oriented presentations. Students will learn the role of effective communication in our lives, and how to communicate more clearly and effectively. Students will improve upon personal speech habits, delivery styles, gestures, tone, diction, and other mechanics of speech.

Sociology

Grade 10, 11 or 12

5 credits

Sociology is an elective course that studies human society and social behavior. Positive human relationships are an essential part of a civilized society and how we interact with each other is important. Sociology teaches us to look at life in a scientific, systematic way. The values, beliefs, lifestyles of those around us, as well as historic events help to mold us into unique individuals who have varied outlooks on social reality. Sociology will cover topics such as culture, violence, deviance, social control, socialization and personality, group behavior, social class, and social institutions. The key component of this course is to study ourselves and the society that influences our behavior.

Statistics

Grade 11 or 12

5 credits

Prerequisite: Algebra II

This course will introduce general statistics principles which will help students think critically, become informed consumers, and draw correct conclusions from data. Four broad conceptual themes outline this course which include Exploring Data, Probability, Sampling and Experimentation, and Statistical Inference. The course content will emphasize applications drawn from economical, psychological, scientific, and educational areas. Statistics is a course that is mandatory for most college majors and being exposed to statistics in high school will benefit college-bound students.

Work Based Learning (WBL) (Formerly SLE)

Grade 12

5 credits

Work Based Learning is experiential, supervised, in depth learning experiences aligned to the New Jersey Student Learning Standards that are designed to offer all students the opportunity to fully explore career interests and develop workplace readiness skills. This course will cover basic areas of employability skills, workplace readiness and employment equity. Students will develop employability skills, complete job applications, prepare professional portfolios and participate in mock interviews to develop their skills in preparation for an SLE. Examples of SLEs include community service, service learning, volunteering, job shadowing, paid/unpaid internships and cooperative education experiences.