

Union High School



Course Catalog

updated 2/2020

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Graduation Requirements

The Union Township Board of Education, acting in accordance with the “High School Standards Act” (P.L. 1979, C.241) and Title 6, Chapter 8 of the New Jersey Administrative Code, hereby adopts the following policy: The Board realizes that it has as one of its major goals, “student proficiency in basic skills.” This goal is an integral part of its duty to provide opportunities for a thorough and efficient education to the pupils residing in Union Township, Union County in the State of New Jersey. It is crucial to the process and the anticipated attainment of this goal that pupils share in the responsibility of their own education. Thus the Board will fulfill its statutory obligation to set forth in writing its graduation requirements policy and cause to be promulgated the necessary administrative regulations to be distributed to all incoming ninth grade students and their parents or guardians so that they are aware of the requirements for graduation from Union High School with the State endorsed diploma. Additionally, requirements for successfully mastering the proficiencies of any particular courses required for graduation will be distributed to students and parents or guardians at the start of such courses.

In keeping with its obligations under N.J.A. C. 6:8-4.6, the Board directs the Superintendent to promulgate administrative regulations and procedures, which shall meet the requirements of statute and regulations regarding pupil promotion and high school graduation in the following areas:

CREDIT REQUIREMENTS FOR GRADUATION: 130 CREDITS

Language Arts Literacy/English: 4 years, 20 credits

Math: 3 years, 15 credits including Algebra I content, Geometry content, and a third year of math that builds upon Algebra I and Geometry and prepares students for college and 21st century careers

Science: 3 years, 15 credits including laboratory biology, chemistry, environmental science or physics and an additional lab/inquiry-based science

Social Studies: 3 years, 15 credits including histories and integrated civics, economics, geography and global content

World Language: 1 year, 5 credits

Financial Literacy: ½ year, 2.5 credits

Visual & Performing Arts: 1 year, 5 credits

Career/Technical Arts: 1 year, 5 credits

Health & Physical Education: 4 years, 20 credits

[Additional NJDOE Graduation Testing Requirements](#)

www.nj.gov/education/assessment/parents/GradReq.pdf

Honors/AP Procedures

For information about the Honors/AP Procedures, including applications, appeals, and other information, please click here: [UHS Honors/AP Program Procedures](#)

Honors/AP Rubrics

[Language Arts Literacy / English - Honors/AP Rubric](#)

[Mathematics - Students Entering Grade 9 Honors/AP Rubric](#)

[Mathematics - Students Entering Grades 10-12 Honors/AP Rubric](#)

[Science - Honors/AP Rubric](#)

[Social Studies - Honors/AP Rubric](#)

[World Language - Honors/AP Rubric](#)

Mathematics Department Course Offerings

MA100 Algebra I

Algebra I will focus on solving systems of equations, exploring linear, quadratic, exponential, and rational functions, and manipulating radical, polynomial, and rational expressions. Emphasis will be placed on the application of these concepts in real world settings and methods for modeling real world scenarios using these functions. Graphing calculators are used throughout this course to further develop each concept.

MA100L Algebra I with Lab

Algebra I with Lab is a comprehensive, double-period course that is designed to provide additional assistance to students to help them succeed in Algebra I. Central to the Algebra I with Lab course is the idea that students need a powerful combination of additional time; a challenging curriculum; and cohesive, targeted supports and interventions. The course includes an exploration of the properties of the real number system, fundamental operations with real numbers and variables, solving equations, inequalities, linear and non-linear relationships, linear systems, data analysis and probability. Students will develop these concepts numerically, graphically, and analytically. Real-world applications will be explored throughout the course.

MA202 Geometry

Prerequisite: MA100/MA100L

This course in Euclidean geometry includes the topics: the language of geometry, reasoning and introduction to proof, parallels, congruent triangles and quadrilaterals. Scientific calculators will be used throughout the course. This course continues with the study of similar figures, right triangles, trigonometry, circles, probability and statistics, polygons and their areas, surface area and volume of prisms, pyramids, cylinders, cones, and spheres.

MA280 Honors Geometry

Prerequisite: MA100/MA100L; application

This course in Euclidean geometry includes the topics: the language of geometry, reasoning and introduction to proof, parallels, congruent triangles and quadrilaterals. Scientific calculators will be used throughout the course. This course continues with the study of similar figures, right triangles, trigonometry, circles, probability and statistics, polygons and their areas, surface area and volume of prisms, pyramids, cylinders, cones, and spheres. This course includes the regular Geometry course content, but with an increased degree of rigor and greater depth of study.

MA310 Algebra II

Prerequisite: MA202/MA280

Algebra II is a continuation of work begun in Algebra I and Geometry. This course emphasizes facility with algebraic expressions and forms, especially linear and quadratic forms, powers and roots, and functions based on these concepts. Students study exponential, logarithmic, polynomial, and other special functions for their abstract properties and as tools for modeling real-world situations. Geometric ideas are utilized throughout, and matrices are examined conceptually and applied.

MA380 Honors Algebra II/Trigonometry

Prerequisite: MA202/MA280; application

Honors Algebra II/Trigonometry continues with more advanced study in mathematics after geometry. The algebraic properties of the real number system are reviewed, as are equations and inequalities of the first and second degree. The real number system is extended to the complex number system. Conic sections are given geometric application. Coordinate geometry, systems of equations, and logarithmic, exponential, trigonometric, and polynomial functions are instructed in detail.

MA440 Sports Statistics

Prerequisite: MA202/MA280

This course teaches students how to use four-steps of the statistical process in the context of sports: ask questions, collect data, analyze data, and make conclusions. Each unit begins with a sports-related statistical question (e.g., Is there a home field advantage in the NFL?). Students will then learn how to collect appropriate data, analyze the data, and make reasonable conclusions. Although the context of the examples and exercises will be sports related, the primary focus of the class will be to teach students the basic principles of statistical reasoning. Major statistical topics include: descriptive statistics, probability, probability distributions, and inferential statistics. Use of technology, including online applets and the graphing calculator will be prominent in the course. Throughout the course, students will complete investigations that require them to complete the four-step statistical process using athletes of their choice.

MA450 Statistics

Prerequisite: MA202/MA280

Statistics explores the many facets of data analysis. Topics include descriptive statistics, probability, probability distributions, and inferential statistics. Examples will be taken from various fields. This course will prepare students for college level course work in the social and health and business studies. Students will analyze and interpret data in real life situations.

MA550 AP Statistics

Prerequisite: MA202/MA280; application

This course will introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. At the advanced level, students will be

exposed to four broad themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. All students enrolled in AP Statistics will have the opportunity to prepare for and take the AP exam in May.

MA340 General Math 3

Prerequisite: MA202/MA280

The purpose of this course is to provide a third year mathematics course to serve as a bridge to prepare students to be successful in Algebra II or in a post-secondary career. This course will provide instruction in general mathematical concepts and skills needed to recognize, formulate and solve problems arising from mathematical situations and every day experiences.

MA400 Math Readiness

Prerequisite: MA310/MA380

This course will discuss mathematical topics that prepare students to be successful in an entry level college mathematics course or the workforce. Guest speakers from different careers will speak to students, and commonly used programs, such as Microsoft Excel, will be utilized to help solve real-life situations. Topics discussed include number sense, algebra, geometry, and financial literacy.

MA402 Algebra III/Trigonometry

Prerequisite: MA310/MA380

This course will enhance the higher level thinking skills developed in Algebra II through a more in-depth study of those concepts and exploration of some pre-calculus concepts. Students in Algebra III will be challenged to increase understanding of algebraic, graphical, and numerical methods to analyze, translate and solve polynomial, rational, exponential, and logarithmic functions. Modeling real world situations is an important part of this course. Sequences and series will be used to represent and analyze real world problems and mathematical situations. Algebra III will also include a study of matrices and conics.

MA412 Pre-Calculus

Prerequisite: MA310/MA380

This course develops the ideas associated with circular, polynomial, exponential, logarithmic, and trigonometric functions. The various functions are applied to real world situations. Additional topics include conic sections, parametric and polar equations, sequences and series, and a brief introduction to limits. Students will also have the opportunity to explore data using technological resources such as Google Sheets, Desmos, as well as their graphing calculators.

MA415 Honors Pre-Calculus

Prerequisite: MA310/MA380; application

Honors Pre-Calculus will prepare students for the rigorous AP Calculus curriculum. It will develop Pre-Calculus topics in greater depth and at a challenging level that will expose students to the future demands of an Advanced Placement course. Topics that

will be explored include circular, trigonometric, parametric, exponential, and logarithmic functions, vectors, polar coordinates, sequences and series, and an introduction to limits and derivatives.

MA480 Calculus

Prerequisite: MA412/MA415; application

Calculus is offered as an alternative to the rigors of the Advanced Placement Calculus course. It includes an exploration of the concept of a limit, derivatives, definite integrals, and indefinite integrals. Students investigate differentiation and integration using numerical, graphical, algebraic, and analytical methods. The use of a graphing calculator is expected as real-world applications are explored throughout the course.

MA580 AP Calculus

Prerequisite: MA415; application

AP Calculus includes the concepts of limit, differentiation of algebraic and transcendental functions, differentials, mean value theorem, Rolle's Theorem, integration of standard elementary forms, and transcendental functions. Geometric and physical applications include the area under a curve, volume of revolution, and velocity. Additional topics include differential equations and hyperbolic functions. All students enrolled in AP Calculus will have the opportunity to prepare for and take the AP exam in May.

MA460 Introduction to Computer Science

Students will experience the major topics, big ideas, and computational thinking practices used by computing professionals to solve problems and create value for others. Students will use visual, block-based programming and seamlessly transition to text-based programming with languages such as Python to create apps and develop websites, and learn how to make computers work together to put their design into practice. Students apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them.

MA520 AP Computer Science A

Prerequisite: MA460

Using Python as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation.

Language Arts Literacy / English Department Course Offerings

EN101 Freshman English

EN101L Freshman English with Lab

Prerequisite: By Invitation Only

EN100 Honors Freshman English

Prerequisite: Application

The ELA curriculum in grades 9 and 10 are designed to reinforce and develop reading, writing, speaking, listening, and viewing skills through an integrated approach. Students engage with varied types of literature and media, of varied lengths, and engage in research and writing of various types. Student group practices as well as presentation and MLA documentation are practiced. Students enrolled in the Honors Program will engage in a classroom with an increased amount of independent work, analytical and research-based writing, and an increased amount of readings in a faster-paced classroom focused on a deeper sense of analysis and higher level of rigor. Students enrolled in a course with Lab will be engaged in a double-period course allowing for increased time and instruction in foundational skills in addition to the grade-level curriculum.

EN201 Sophomore English

EN201L Sophomore English with Lab

Prerequisite: By Invitation Only

EN200 Honors Sophomore English

Prerequisite: Application

The ELA curriculum in grades 9 and 10 are designed to reinforce and develop reading, writing, speaking, listening, and viewing skills through an integrated approach. Students engage with a number of varied types of literature and media, of varied lengths, and engage in the research and writing of various types modes. Student group practices as well as presentation and MLA documentation are practiced. Students enrolled in the Honors Program will engage in a classroom with an increased amount of independent work, analytical and research-based writing, and an increased amount of readings in a faster-paced classroom focused on a deeper sense of analysis and higher level of rigor. Students enrolled in a course with Lab will be engaged in a double-period course allowing for increased time and instruction in foundational skills in addition to the grade-level curriculum.

EN301 Junior English

EN300 Honors Junior English

Prerequisite: Application

Junior English - American Literature and Culture focuses on the study and analysis of literature, literary history, writing, and research with the purpose of understanding how our present lives have been shaped by great literature of the past. Research and MLA writing skills are strengthened with the goal of preparing college-bound students. Students will develop vocabulary through reading and formal study. Public speaking and small group skills will also be reinforced. Students enrolled in the Honors Program will engage in a classroom with an increased amount of independent work, analytical and research-based writing, and an increased amount of readings in a faster-paced classroom focused on a deeper sense of analysis and higher level of rigor.

EN360 AP English Literature and Composition

Enrollment: Grade 11

Prerequisite: Application

AP Literature and Composition is designed for the highly motivated junior who is planning to take the AP test in English Literature for college credit. The course will cover the equivalent work of a college freshman English class, which includes an intensive study of representative works from various genres and periods of literature, concentrating on the works of recognized literary merit. In addition, students will be instructed in the process of writing expository and analytical essays, as well as the use of proper research documentation. It is strongly suggested that students in this course take the Advanced Placement examination in English Literature and Composition.

EN401 Senior English

EN400 Honors Senior English

Prerequisite: Application

Students will study and analyze literary masterpieces from the UK and Europe, relating authors and works to major themes and issues. Students at this level will come to appreciate both the universal themes that pervade all literature as well as the distinct features of various time periods and cultures. Through their shared discussions, independent reading, and performance based assessments, they will become better prepared to meet the challenges of the global culture of the 21st century. Research and MLA writing skills are strengthened with the goal of preparing college-bound students. Students will develop vocabulary through reading and formal study. Public speaking and small group skills will also be reinforced. Students enrolled in the Honors Program will engage in a classroom with an increased amount of independent work, analytical and research-based writing, and an increased amount of readings in a faster-paced classroom focused on a deeper sense of analysis and higher level of rigor.

EN460 AP English Language

Enrollment: Grade 12

Prerequisite: Application

AP Language and Composition is a college level course in critical reading and effective writing. Concentrating on a study of rhetorical devices and a wide variety of non-fiction essay modes, the student will see how authors use those devices to engage and maintain the reader's interest. Research and public speaking skills will also be reinforced. It is strongly suggested that students in this course take the AP Language and Composition Exam.

EN412S/413S/414S/415S Senior English Topics

Enrollment: Grade 12

Prerequisites: Must have successfully completed English courses in grades 9, 10, and 11, earn a final grade of C+ (77.0%) or higher in EN360 Junior AP English OR EN300 Honors Junior English OR EN301 Junior English during the regular school year, must have met NJ Department of Education Graduation Testing Requirements by the end of their Junior year, must return the [Parent Approval Letter](#) signed

The Senior Topics program allows students to take a pair of semester courses in lieu of the traditional full year Senior English course. Each of the courses is literature-based with writing components, but focus on a particular kind of literature, genre, or author. This program allows students to participate in college-style literary studies in concepts and topics that break away from the traditional study of British Literature.

See Senior English Topics Courses on the next page.

EN412S Adapting Film from Literature

In this course, students will analyze the journey of a literary text to its film adaptation. Student will analyze, research, and demonstrate an understanding of the origin of a narrative in comparison and contrast to its ultimate film product. Students will be exposed to various authors' dramas/screenplays, short stories/novellas, and novels, as well as their film counterparts. Students will practice writing and research skills through the creation of MLA-style literary analysis essays for each narrative, as well as learn the fundamentals of screenplay writing and storyboarding for film.

EN413S Literature of Contemporary Society

This course is designed to create a bridge from current societal issues to contemporary fiction. In previous years, students have read literature that relates to a period, culture or an overarching theme but this course is based solely on student's lives in society. Many of today's authors' use their writing to reflect the society they live in and the social issues faced on a daily basis. For our students to become twenty-first-century learners, they must be able to see the relationship between literature and society. This relationship will lead to class discussions, tie-ins to both nonfiction literature and articles from current periodicals and multimedia presentations. Students will be annotating the text, writing critical essays and using various sources in conjunction with the literature introduced in class to help broaden their minds about their society today.

EN414S Literature of Identity and Self

Literature of Identity and Growth will be modeled after and implemented like a college English class. Students will practice literary analysis through discussion and formal and creative applications. The course will explore literature that speaks to the sculpting of young adults in all facets as well as features young adults and their transition into the "real world".

EN415S Horror Literature

In this course, students will examine the gothic and horror genre of literature throughout time as well as analyze why the character of the vampire has withstood the test of time. Students will investigate why this type of character as well as the horror genre became and remain so popular. *Horror Literature* requires students to read a variety of short stories, poems, and novels from various time periods that focus on the character of the vampire. All students will practice writing and presentation skills through MLA-style literary analysis essays

EN475 English 12 Lab

Enrollment: Grade 12

Prerequisite: Needed completion of NJDOE Graduation Testing Requirement in ELA
The English 12 Lab course accommodates the tutorial needs of students who fail to meet state requirements of ELA assessment. Students in this course will receive enhanced instruction in grammar, reasoning skills, vocabulary, reading comprehension strategies, and writing skills in order to meet grade level standards. The course will enable students to become skilled readers and to write adequate prose, composing in a variety of subjects, purposes, and forms. The course also focuses on workplace writing.

EN502S Journalism

Students discover how to evaluate information based on its primary purpose among seven main “Info Zones” (news, opinion, entertainment, advertising, publicity, propaganda and raw information). They will then have an opportunity to apply this skill to a compilation challenge of examples of news and information. Students explore how journalists “filter” information, or determine which events and issues to cover in a news cycle, by using four key criteria; they then apply them to both hypothetical and actual news events that present consistently difficult choices. This course will also include learning a foundation of necessary skills to write for publishing and broadcast. Journalistic “Inverted Pyramid” writing style will be practiced, as well as targeting interesting topics, seeking and interviewing sources, drafting articles and editing copy. The students will maintain a portfolio of their work, some of which may be available to submit for publication. This course will also cover trends in professional mainstream media, the media’s effect on its audiences, and its place among our American constitutional rights.

EN503S Public Speaking

This course provides students with an opportunity to strengthen their skills in speaking in both small and large group settings. Students will become more confident when speaking in front of others through the study, preparation, and delivery of various types of speeches, including informative, persuasive, and those for special occasions. Students will learn to choose speaking topics and adapt them for specific audiences, to research and support their ideas, to benefit from listener feedback, and evaluate presentations given by others. They will also study how to incorporate well-designed visual and multimedia aids in presentations.

EN504S College Writing

Enrollment: Grades 9-12

This course is primarily designed to prepare students for writing academic papers in college; specifically, such papers will incorporate MLA (Modern Language Association) and APA (American Psychological Association) style guidelines. Students will be taught formulaic writing strategies, how to locate credible sources of information, and how to appropriately cite such sources. Students will also be provided with tutorial help for writing assignments from other classes.

EN505S The Graphic Novel

Graphic Novel course is about storytelling through art. It provides the reader with an alternative to text on a page by conveying events through detailed artwork. This class will emphasize historical events and social experiences through the medium of the comic. Students will also explore how to apply these techniques into their own storytelling.

EN506S Holocaust and Genocide Literature

Grades: 10-12

Holocaust and Genocide Literature encourages students to investigate the effects that widespread prejudice and bias can have on a community or culture. Students will utilize a combination of multimedia, digital, literary, and informational sources to draw conclusions and analyze historical events through a literary perspective. Topics are not limited to the Holocaust that took place during World War II and includes other international events.

EN507S Young Adult Literature

Young Adult Literature will help students build an appreciation of literature and motivate students to become lifelong readers through exposure to popular young adult fiction. Students will examine the role of young adult literature in relation to their culture and development. The course will link various young adult works to classic myths, themes, and stories from around the world. It will also give students the opportunity to use technology in literature related activities.

EN508S Creative Writing: Nonfiction and Media

This course will consider the influence of and the relationship between the arts in terms of creative self-expression through the mediums of literature, music, film, and art. In particular, the students will analyze and appreciate the creative works of established writers and creative artists, resulting in the development of their own original writing. Writers will create nonfiction pieces such as memoirs, blog posts, and personal essays as well as creative nonfiction such as historical fiction and “based on a true story” screenplays.

EN509S Creative Writing: Fiction and Poetry

This course will consider the influence of and the relationship between the arts in terms of creative self-expression through the mediums of literature, music, film, and art. In particular, the students will analyze and appreciate the creative works of established writers and creative artists, resulting in the development of their own original writing. Writers will create short fiction which includes children’s stories such as fairy tales and fables, a formal short story, a number of poems in both form and free verse, and writing inspired by art.

EN510S Introduction to Writing and Style

In this class, students practice and experiment with clarity, structure, fluency, and rhetorical control as they compose, critique, and revise writing projects and analyze various writing and media types. Students will have the opportunity to develop communication skills through writing assignments and classroom discussions, increase awareness of the arguments, and expand their ability to gather, analyze, and synthesize information from different sources.

EN511 Screenwriting

Do you want to write a screenplay? This one-year workshop course will present the skills and foundations in the techniques of writing necessary to prepare scripts for television, stage and film. You will learn how to generate ideas, how to draft a play, utilize conflict, characterization, dialogue, scene structure and other tools of the trade. We'll also discuss the business side of screenwriting, such as selling your script, working with agents, producers, casting directors, etc. The goal of the class is to have your own screenplay written and ready to be cast.

Science Department Course Offerings

SC102 Environmental Earth Science

Enrollment: Grade 9

The ninth grade Science Curriculum is a continuum of the seventh and eighth grade courses. It elaborates upon and deepens the concepts of environmental and earth science and is designed to immerse students in the physical, biological and earth systems sciences that shape our planet and the environment we live in. Scientific concepts, principals, and modern science practices allow students to analyze the earth and the many processes that shape it as well as exploring beyond earth and the formation of the universe. Environmental issues, both natural and human induced will be studied, and are designed to engage students in evidence-based decision making in real world contexts.

SC342 Environmental Science

Enrollment: Grades 11 and 12

This is a hands-on course. We will be investigating the relationships among plants, animals and the environment through lab work, outdoor field studies and class discussions. The subject matter to be included in this course will be organisms and their relationships to their environment, energy in an ecosystem and the different types of terrestrial ecosystems. Current problems concerning the environment will be dealt with in this course. During this second half of the year we will build on concepts dealt with in semester one. Particular emphasis will be placed on bodies of freshwater, pollution and human population, both locally and worldwide. An outdoor field trip will reinforce the concepts learned throughout the year.

SC212 Biology

Biology is a lab science course that emphasizes the scientific vocabulary of biology as well as some of the more abstract concepts of molecular and cellular biology.

The subject matter included in the first semester will be as follows: the characteristics of all living things, the chemical and structural basis of life, the cell and its environment, photosynthesis and cellular respiration, ecology. The second half of the year will emphasize DNA and protein synthesis, cell reproduction, genetics and heredity, principles of evolution, the origin of humans, classification of organisms and the exploration of diversity on earth.

SC111/211 Honors Biology

Prerequisite: Application

Honors Biology is specifically designed for the student who has demonstrated exceptional ability in the sciences and who is contemplating attending a four-year college upon graduation from high school. It is strongly recommended that this course be selected if a student is contemplating the taking of Advanced Placement Biology. The course will challenge the more able student with a rigorous, in-depth study of biology, stressing higher-levels of learning and critical thinking skills. It will emphasize the scientific vocabulary of biology as well as some of the more abstract concepts of molecular and cellular biology. The subject matter included in the first half will be: the characteristics of all living things, the chemical and structural bases of life, the cell and the environment, photosynthesis, cellular respiration, protein synthesis, cellular reproduction and heredity. The second half of Honors Biology will use the basic concepts and information taught and discussed in the first semester to explore the relationships between the structure and function of the different systems of humans. The students of Honors Biology will perform extensive laboratory experiences which will be open-ended and designed to foster discovery skills and investigative procedures. Laboratory investigations including computer simulations and demonstrations using electronic/physiological equipment will be utilized to demonstrate the anatomy and physiology of the human body. The evolution and classification of organisms protozoa, will be studied, as well as various microscopic forms of life, such as viruses, bacteria, fungi, and algae will be studied. The plant kingdom will also be investigated, with emphasis being placed upon the anatomy and physiology of the seed plants. Principles of ecology will be presented, if time permits

SC310 Advanced Placement Biology

SC310L Advanced Placement Biology Laboratory

Enrollment: Juniors and Seniors

Prerequisites: application; SC211 and SC321: Juniors who are planning to take advanced placement sciences must be taking SC321 or SC432 simultaneously; seniors must be taking SC431, unless previously taken as a junior.

The first half of the full year in biology is designed to prepare students to take the Advanced Placement Examination for college degree credit and/or advanced placement. The subject matter included will be the origin of life, the study of basic chemistry and biochemistry, cells, enzymes, energy transformations, cellular division, the chemical nature of the gene and genetics. The second half of Advanced Placement Biology will utilize the basic concepts and theories taught and discussed in the first semester to investigate and to explore the structure and function of organ systems in animals, with the emphasis being placed upon the vertebrates. Also included will be the structure and function of organ systems of plants, with emphasis being placed upon the angiosperms, plant reproduction and development, the principles of ecology, evolution, behavior and social biology.

SC432 Physics

The course is a study of the relationships between matter and energy, the course begins with an investigation of the relationships of length, time and mass in terms of basic quantities. The semester ends with an application of the above foundation to thermal energy. Since the language of physics is mathematics, solving problems of a mathematical nature will be emphasized. Topics to be included in the first semester will be: 1) the meaning of Physics 2) the mathematics of physics, motion, velocity, acceleration, forces, vectors, motion in two dimensions, universal gravitation, momentum and its conservation, work, energy, and simple machines, energy, thermal energy, and the states of matter. The second half of the year builds upon the foundation of the first half and begins with the study of electricity and magnetism and ends with the study of waves and their application to sound and optics. If time permits, the basics of nuclear science will be presented. Problem solving, once again, will be emphasized. Topics to be included in the second half will be: static electricity, electric fields, current electricity, series and parallel circuits, magnetic fields, electromagnetic induction, electric and magnetic fields, waves and energy transfer, sound, light, reflection and refraction, mirrors and lenses, diffraction and interference of light, and nuclear energy when time permits.

SC430 AP Physics 1

Prerequisite: application

AP Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills.

SC530 AP Physics 2

Prerequisite: application

AP Physics 2 is an algebra-based, introductory college-level physics course that explores topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics, electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometrical optics; and quantum, atomic, and nuclear physics. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills.

SC313 Action Chemistry

Enrollment: Grades 11 and 12

Prerequisites: MA100/MA100L

The first half will begin with the study of matter. It will involve the learning of the metric system; properties of matter and the relationship between the atomic particles in matter which are responsible for chemical bonding. Students will then be able to apply these concepts to the writing of chemical formulae and balanced equations. In addition the "Mole Concept" will be introduced. The second half builds upon the concepts learned in the previous semester. Through laboratory experiments, the students will learn about the physical and chemical properties of acids and bases. This will include the topics of pH and solution chemistry. Students will investigate the Periodic Table and its uses to predict the physical and chemical activity of the elements.

SC322 Chemistry

Prerequisites: MA100/MA100L and MA202/MA280 with no grades less than a C or have permission from the Supervisor of Science.

Chemistry is designed for the student who is contemplating a future career or major in the sciences and/or a science related field and has a good and adequate background in mathematics. It is a theoretical and mathematical approach to the study of the composition and activity of the various elements and compounds found on the Physical. The first half will establish the basic and fundamental concepts for the organized study of matter. It will involve the learning and understanding of the metric system, properties of matter and the energy relationships between the atomic particles in matter which are responsible for chemical bonding. Students will then be able to apply these concepts to the writing of chemical formulae and balanced equations. In addition, the "Mole Concept" will be introduced. Utilizing the concepts and theories learned in the two quarters, the students will learn how to solve problems of various types which illustrate the mathematical relationships which exist in chemistry. Through classroom discussions and laboratory experiments, the students will learn about the physical and chemical properties of acids and bases. This will include the topics of pH, molarity, molality and acid-base titration as well as the theories concerning the nature of these two kinds of substances. A study of the energy of reactions will be included. The year will conclude with an introduction to the subject of chemical equilibrium with the emphasis being placed upon the equilibrium constant, the predicting chemical activity. Calculations involving these concepts will also be presented.

SC321 Honors Chemistry

Prerequisites: application; Students must have completed MA380 before taking this course with a grade of A or better or permission from the Supervisor of Science. Honors Chemistry is designed for the student who is contemplating a future career or major in science and has a good and adequate background in mathematics. It is a theoretical and mathematical approach to the study of the composition and activity of the various elements and compounds found on the Physical. The first half will establish the basic and fundamental concepts for the organized study of matter. It will involve the learning and understanding of valences of elements and the energy relationships required to form different types of chemical formulae and the uniting of balanced equations. The students will learn how to solve problems of various types which illustrate the mathematical relationships which exist in chemistry. Emphasis will be placed upon the "Mole Concept." The solution process will be investigated together with the theory and concepts of ionization as well as the gas laws and their mathematical relationships. Through classroom discussions and laboratory experiments, the students will learn about the physical and chemical properties of acids and bases. This will include the topics of pH, molarity, molality and acid-base titration as well as the theories concerning the nature of acids and bases. A study of the energy of reactions will be included. The year will conclude with an introduction to the subject of chemical equilibrium with the emphasis being placed upon the equilibrium constant, the ionization constant and the solubility product, as methods of explaining and predicting chemical activity. Calculations involving these concepts will be presented. Students will be exposed to the concepts of nuclear chemistry by doing written reports and oral presentations.

SC420 AP Chemistry

SC420L AP Chemistry Laboratory

Prerequisite: application; SC321 or SC322 and MA380 with no grades below a B (three).

A sequential, full year, college level course in chemistry which is designed to prepare students to take the Advanced Placement Examination for college degree credit and/or advanced placement. The first half of advanced chemistry deals with the basic concepts of chemistry already discussed in the first year of chemistry. Concepts covered include stoichiometry, atomic structure, chemical bonding, the periodic table, liquids, gases, solids and solution processes. The second half of the year will concern itself with discussions and problem-solving activities which will focus upon chemical reactions, how they occur and what will affect such chemical behavior. Students will investigate the subjects acids/bases of heats of reactions, solubility products, equilibrium and ionization constants, redox reactions and basic qualitative analysis.

SC344 Geophysics

Enrollment: Grades 11 and 12

It is an integrated science course which will include topics from all of the sciences. Life science, environmental science, chemistry, physical and earth science will be investigated through hands-on activities. It is a lab science course. This course is typically for those students that are not pursuing science in college.

SC443 Human Anatomy and Physiology

Prerequisite: Three Science courses

This course will introduce the student to the basic principles of human anatomy and physiology. Students will investigate the skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems. Numerous laboratory exercises including blood pressure, pulse, reflexes, EKG, sheep brain dissection, sheep heart dissection, and fetal pig dissection. Audio and visual materials, models, demonstrations and lectures will be utilized to demonstrate the relationships of the structures and mechanisms of each system to the functions of the entire human body. The course will conclude with an extensive fetal pig dissection and practicum.

SC444 Forensic Science

Prerequisite: Three Science courses

This course will be 80-90% laboratory based. Students will be learning and implementing the newest lab techniques in the area of forensics such as DNA fingerprinting, blood analysis, hair and fiber identification, document and voice examination.

SC445 Hollywood Science

Prerequisite: Three Science courses

This course is a full semester course for seniors. The use of film clips from movies such as Jurassic Park, Forrest Gump, Men in Black, The Day After Tomorrow, Twister and various others will be viewed as a means to explore concepts and principles in the sciences. Topics in Biology, Earth Science, Chemistry, Physics, Nuclear Science and Environmental Science will be discussed during the course of the year.

SC150 Introduction to Engineering and Design

Enrollment: Grades 9-12

The major focus of IED is the design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students use industry standard 3D modeling software to help them design solutions to solve proposed problems, document their work using an engineer's notebook, and communicate solutions to peers and members of the professional community.

SC250 Principles of Engineering

Prerequisite: SC150

This survey course exposes students to major concepts they'll encounter in a post-secondary engineering course of study. Topics include mechanisms, energy, statics, materials, and kinematics. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work and communicate solutions.

SC350 Digital Electronics

Prerequisite: SC250

Third year course. Digital electronics is the foundation of all modern electronic devices such as mobile phones, MP3 players, laptop computers, digital cameras and high-definition televisions. Students are introduced to the process of combinational and sequential logic design, engineering standards and technical documentation.

Social Studies Department Course Offerings

SS132 World History

This course traces the history of the world from the Age of Exploration and Expansion up to the present. A review of the Renaissance, Reformation, and Absolutism in Europe leads into a study of empires in China, Japan, and the areas under Islamic rule. The topic of Revolution includes the influence of the Enlightenment and the revolutions in England, the United States, France, and Latin America, as well as the Industrial Revolution. Focus then shifts to the growth of European reform movements, along with rising nationalism and its inherent imperialism in Asia, the Middle East, and Africa - leading ultimately to World War I. Attention is also paid to the Russian Revolution. The theme of nationalism is followed into China, Africa, and India. The final study is of modern Asia, Africa, the Middle East, and Latin America, encompassing global issues, such as economic interdependence, diversity, and human rights. A variety of skills have been integrated into the curriculum, including critical thinking, research, writing, cooperative learning, and analysis of maps and graphic organizers.

SS131 Honors World History

Prerequisite: application

This honors social studies course demands a more advanced level of study, discussion, writing, and examination. It is designed to challenge the more academically talented student who must have demonstrated superior ability in social science and have met established criteria. An individual research paper, projects, in-depth discussions, and extensive readings are required. Areas of study are the same as SS132.

SS233 United States History I

Prerequisite: SS131/SS132

This course traces the history of the United States from the immediate Post-Reconstruction Era up to World War I. A brief review of the Colonial Period will serve as a bridge to a critical analysis of the development of the United States from a "house divided" to a modern industrial world power. Aspects of the United States Constitution will be integrated throughout the course.

The growth of the United States will be examined within the thematic contexts of government, society, economy and foreign policy. These themes will be utilized as guides to evaluate the major events that transpired within the chronological periods of 1700-1776, 1776-1820, 1820-1877, 1877-1900, and 1900-1919. Special attention is given to those issues pertaining to geography, leadership, diversity, and topics focusing on New Jersey.

A variety of skills have been integrated into the curriculum including critical thinking, research, writing, cooperative learning, analysis of charts and graphs, role playing, as well as job/workplace readiness proficiencies.

SS231 United States History I Honors

Prerequisite: application, SS131/SS132

This honors social studies course demands a more advanced level of study, discussion and examination. It is designed to challenge the more academically talented student who must have demonstrated superior ability in social science and have met department determined criteria. An individual research paper, reading of historical novels, projects, in-depth discussions and extensive readings are required. Areas of study are the same as SS233.

SS230 AP United States History I

Prerequisite: application, SS131

The AP program in United States History is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full year introductory college courses. Students will learn to assess historical materials--their relevance to a given interpretive problem, their reliability, and their importance--and to weigh the evidence and interpretations presented in historical scholarship. An AP United States History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgement and to present reasons and evidence clearly and persuasively in essay format.

The area of study for the first year of this two year program will begin with pre-Colonial history and continue through Reconstruction.

SS343 United States History II

Prerequisite: SS233/SS231/SS230

This course traces the history of the United States from the early 20th Century up to the present. A brief review of the World War I era through the Roaring Twenties will serve as a bridge to a critical analysis of the development of the United States from a modern industrial world power to a global superpower. Aspects of the United States Constitution will be integrated throughout the course.

The history of the United States will be examined within the thematic contexts of government, society, economy, and foreign policy. These themes will be utilized as guides to evaluate the major events that transpired within the chronological periods of 1929-1937, 1937-1945, 1945-1963, 1963-1980, 1980-present. Special attention is given to those issues pertaining to geography, leadership, diversity, and topics focusing on New Jersey.

A variety of skills have been integrated into the curriculum including critical thinking, research, writing, cooperative learning, analysis of charts and graphs, role playing, as well as job/workplace readiness proficiencies.

SS341 Honors United States History II

Prerequisite: SS233/SS231/SS230, application

This honors social studies course demands a more advanced level of study, discussion and examination. It is designed to challenge the more academically talented student who must have demonstrated superior ability in social science and have met department determined criteria. An individual research paper, projects, in-depth discussions and extensive readings are required. Areas of study are the same as SS343.

SS340 AP United States History II

Prerequisite: SS230, application

The AP program in United States History is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full year introductory college courses. Students should learn to assess historical materials - their relevance to a given interpretive problem, their reliability, and their importance - and to weigh the evidence and interpretations presented in historical scholarship. An AP United States History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgement and to present reasons and evidence clearly and persuasively in essay format. Prerequisite: Completion of SS230 - AP U.S. History I.

This course traces the history of the United States from Industrialization and urbanization of the post-Reconstruction period up to, and including the present day. Students will examine historical issues from a variety of perspectives. Students will also analyze the causes and evaluate the effects of particular social, political, economic and civic problems of different time frames.

A variety of strategies will be incorporated to communicate the content. Primary documents, individual and group research, and selected pieces of art and literature will be blended into the instructional process.

SS 240 Economics

Enrollment: Grades 10-12

This course investigates business and money on the local, state, national, and international levels. Microeconomics, or the role of individuals and small businesses, is the focus of the first semester, while macroeconomics or the role of corporations, governments, and international policy is the focus of the second semester.

SS330 Cultural Studies

Enrollment: Grades 11-12

American History topics regarding the roles and contributions of African-Americans, Latinos, Asians, and women is the focus of this course. A variety of readings along with research will supplant the use of a single text, along with a variety of activities and hands-on-projects.

SS350 Sociology

Enrollment: Grades 10-12

The nature of American society reflected by our cultural environment and social groupings, our values, societal evolution, personality development, behavior, norms, and taboos are the primary topics in this course. Major social institutions and their function and influence, along with race and ethnicity, are also investigated.

SS360 Introduction to Law

Enrollment: Grades 11-12

The function of the legal system, it's relation to young people, career opportunities, courtroom procedures, resolution of legal difficulties and responsibilities, and basic life skills will be covered in this course. Outside speakers and relevant field trips will also be a part of this experience.

SS370 AP European History

Enrollment: Grades 11-12

Prerequisite: application

Concentrates on the history and influence of the European region throughout history, culminating with the annual advanced placement exam which administered nationwide in the spring.

SS371 AP Government and Politics

Enrollment: Grades 11-12

Prerequisite: application

At the advanced placement level, this course will focus on various issues related to American government and political policies, both contemporary and historical, for analysis and evaluation.

SS373 AP Comparative Government

Enrollment: Grades 11-12

Prerequisite: application

This course introduces students to fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of country settings. The course aims to illustrate the rich diversity of political life, to show available institutional alternatives, to explain the differences in processes and policy outcomes, and to communicate to students the importance of global political and economic change.

SS382 Psychology

Enrollment: Grades 11-12

This course addresses the principles of learning, thinking, and memory as well as the connection between the human body, the mind, and behavior. The development of personality and behavioral disorders are also studied.

SS380 AP Psychology

Enrollment: Grades 11-12

Prerequisite: application

Covering similar topics to the regular (SS382) psychology course in greater depth and breadth, this course culminates with the national advanced placement test administered in the spring, which may result in college credit. Research and experiments are also highlighted.

SS392 Humanities

Enrollment: Grades 10-12

The music, art, philosophy, literature, and architecture of Western culture are examined in chronological order from Classical Greece to modern times in an analysis of their influences on society then and now. Units on Asian and African traditions are also included.

SS391 Honors Humanities

Enrollment: Grades 10-12

Prerequisite: application

The music, art, philosophy, literature, and architecture of Western culture are examined in chronological order from Classical Greece to modern times in an analysis of their influences on society then and now. Units on Asian and African traditions are also included. The Honors option (391) will require additional projects, research, and writing for Honors level credit.

SS420S History through Media, Pop Culture, & Film

Enrollment: Grades 11-12

This course will analyze and examine everything from how political cartoons have altered opinions, to how songs, film, TV and media have created opinions on groups, politics and perception.

SS430 African American History

Enrollment: Grades 11-12

This course deals with the social, economic, political and cultural contributions of African Americans to the United States. The course begins with medieval West African empires, moves into the Atlantic trade and then into the history and experiences of African Americans up to the present. Students will often work collaboratively and will be required to contribute to the collaborative effort. Ability to hear, respect and analyze opposing viewpoints is critical in this type of collaborative learning. The personal and familial experiences of students are valued and necessary in this course. As such, solid verbal and written communication skills are vital. Additionally, there is a requirement for sufficient reading and critical analysis of that reading.

SS480 Tomorrow's Teachers

Enrollment: Grades 11 & 12

Prerequisite: Application

Tomorrow's Teachers is an innovative course designed to attract talented young people who possess exemplary interpersonal and leadership skills to consider a career in teaching. The program seeks to provide high school students insight into the nature of teaching, the problems of schooling, and the critical issues affecting the quality of education in America's schools. As such, the program also provides these aspiring future teachers to also become community leaders with insights about teachers and schools that will enable them to be advocates of education.

Business Department Course Offerings

BE 150 Supply Chain Management I

Prerequisite: Teacher Recommendation

Supply Chain Management teaches students how business gets done. The Skinny Jeans kids favor today have a process on how they arrive on the shelf at the local mall. The latest Nike shoe everyone is wearing or craving for has a supply chain story about how it shows up at Foot Locker. Even McDonald's, Burger King, or the movie theater has a supply chain story, [and so does] the phone [students] are using to text a thousand messages.

BE 250 Supply Chain Management II

Enrollment: Grades 10-12

Prerequisite: Students must have taken and passed Supply Chain Management I with a B average or higher.

Supply Chain Management II looks deeper into what goes into the manufacturing, distribution, and sale of a product. Students will receive a better understanding of:

- Customer Relationship Management.
- Customer Service Management.
- Demand Management.
- Order Fulfilment.
- Manufacturing Flow Management.
- Procurement.
- Product Development and Commercialisation.
- Returns Management (in case the product is faulty).

BE160 College Accounting

During this course of study, students will explore three types of businesses--proprietorship, partnership, and corporation. Students will analyze, journalize, and post financial transactions, control petty cash, prepare financial statements, and complete adjusting and closing entries which complete the accounting cycle. Students will complete a workplace accounting simulation.

BE175 Marketing Education

This class provides a solid foundation in the basics of Marketing and all of its functions, including selling, promotion, pricing, market research, product planning, and distribution. Through classroom activities, role plays, and projects, students will develop leadership skills, teamwork, and social skills useful in the marketplace.

Students are encouraged to develop leadership skills, good citizenship traits, and social intelligence through participation in Distributive Education Clubs of America (DECA).

BE210S Business Professional

Enrollment: Grades 10-12

During this course of study, students will explore six aspects of the business world in an individual module format. Semester Y will include Personal Finance, Consumer Marketing, and Technology (Internet Research, Presentations, and Communications). Semester Z will include the Workplace Environment, International Business, and Technology (Global Employment Trends). This exposure will enable students to match interests and abilities in setting realistic career goals.

BE235 Computer Applications I

This course uses Microsoft Word, Excel, PowerPoint, and Internet Explorer. Students will be able to improve their computer literacy skills by creating documents, worksheets, and presentations suitable for course work, professional purposes, and personal use. Students will learn to navigate the Internet effectively. Computer literacy skills are part of this curriculum.

BE240S Financial Literacy

Enrollment: Grade 10

This course is a graduation requirement by the State of NJ for all students beginning with the Class of 2014. It will cover all of the fundamental elements of personal finance such as credit, financing a car or home, balancing a personal budget, and credit/debit cards.

BE260 Advanced College Accounting II

Enrollment: Grades 10-12

Prerequisite: BE160

This advanced course expands on topics learned in the first year of accounting. Additional topics about management accounting, cost accounting, and financial analysis are added. The study of a second year of accounting provides an excellent background and preparation for college business and accounting courses and future business majors.

BE275 Fashion Marketing

Enrollment: Grades 10-12

During this course of study, students will focus on the behind-the-scenes business of the fashion industry. This course draws upon the original principles and practices of marketing and links them with the latest, most innovative concepts that are used today by the fashion industry's leading companies. Classroom activities will be useful for students wishing to pursue a career in fashion retailing/advertising. Presentations, projects, and role-plays will enable the students to gain real-life skills in order to be successful.

Students are encouraged to develop leadership skills, good citizenship traits, and social intelligence through participation in Distributive Education Clubs of America (DECA).

BE390S Criminal Justice**Enrollment:** Grades 10-12

This course deals with the legal system as related to criminal law, and provides the students with problems and examples of the criminal justice system. Speakers and field trips are offered, as well as visual aspects.

BE395 Business Management**Enrollment:** Grades 11-12

During this course of study, students will build a solid understanding of established business principles and practices that form the foundation for all business operations. Economic, legal, and social business fundamentals are explored. The organization of a business as well as marketing products and services, financing, managing and creating a skilled workforce are also presented. The students develop higher-level thinking skills in analyzing the dynamics of a competitive, global marketplace.

BE335 Computer Applications II and Publishing**Enrollment:** Grades 10-12**Prerequisite:** BE235

This course uses Microsoft Word, Excel, PowerPoint, and Publisher. Students will create more advanced documents, workbooks, presentations, and use desk-top publishing software to create professional flyers, newsletters, and brochures. These documents will be suitable for course work, professional purposes, and personal use. Computer literacy skills are part of this curriculum.

BE380 Sports and Entertainment Marketing**Enrollment:** Grades 11-12

This is a course of study of the sports and entertainment industry as it relates to marketing and the utilization of the local sports industry for on-the-job observations. Career opportunities are explored such as, sports agents, promoters, public relations, human resources, ticketing managers, and venue management. Students are encouraged to develop leadership skills, good citizenship traits, and social intelligence through participation in Distributive Education Clubs of America (DECA).

BE385S Business/Personal Law

This course is designed to provide a solid foundation for understanding aspects of business law and personal law.

This course deals with: Federal and State Judicial systems, Rights of Minors, Elements of Contract, Remedies for Breach, Sales Contracts, Workplace Environment, Tenant/Landlord Legal Relationship, Legal Impact of Technology, Legal Considerations in Marriage and Divorce, Minors and Employment, and Wills. Critical thinking and decision-making skills are fostered through legal arguments based on the principles of law presented throughout this curriculum.

BE475 Hospitality and Tourism Marketing Management

Enrollment: Grades 11-12

This course of study enables students to understand business activities related to four areas of the hospitality industry: food and beverage, lodging, recreation, and travel and tourism. This course draws upon the original principles and practices of marketing and links them with the latest and most innovative concepts that are used today by the travel and tourism industry's leaders. A fundamental knowledge base will be created for students wishing to pursue a career or become knowledgeable in the area of HOSPITALITY/TOURISM. Through classroom activities and various assignments students will create projects and presentations based on acquired knowledge and participate in role plays.

Students are encouraged to develop leadership skills, good citizenship traits, and social intelligence through participation in Distributive Education Clubs of America (DECA).

BE490S Business Ethics

Enrollment: Grades 11-12

This course of study enables students to understand the importance of making ethical business decisions in the corporate realm. Students will be taught to think through ethical dilemmas, commit to a particular ethical action, and follow through with the chosen ethical action. This thought process will be based on morals and values that guide a person, organization, or society. The difference between right and wrong, fairness and unfairness, honesty and dishonesty will also be incorporated into the decision-making process. Students will study public relations as the management function that establishes and maintains mutually beneficial relationships between an organization and the public on whom its success or failure depends.

BE535 Honors Corporate Internship

Enrollment: Grades 11-12

Prerequisite: Application

This course provides students with a virtual work environment in which they assume the role of intern for a corporation. Students work independently, as well as cooperatively, developing skills in communication, research, and business decision-making, using office tools and integrated software. This curriculum will enable students to complete corporate-level work assignments, creating a portfolio that will document their level of competency and computer literacy expertise. An "office-style" work environment is simulated.

BE485S Public Relations

Enrollment: Grades 11-12

The concept of public relations as related to both business and other areas is the focus of this course.

BE 480/485 Cooperative Marketing Education/Work Experience

Enrollment: Grade 12

Prerequisite: Application

This class has two parts. The first part is the related class where students focus on life in the workplace and future careers. In addition, students will cover budgeting, investing, and resume writing. The second part allows students to leave school and find an acceptable job that has a marketing or business application. Students must apply and be accepted into the program.

Career Education Department Course Offerings

Note about CA courses: Level 2 students will be required to attend at least one school or community event and visit the Township of Union Channel 34/36 studio in small groups or independently as part of the course requirements. Upon completion of all course requirements students must take an End-of-Course Video Proficiency and Workplace Readiness Skills Exams. Students who pass both tests and have received an “A” or “B” in all of their Video classes, receive a special certification at graduation. ALL STUDENTS IN EACH COURSE ARE EXPECTED TO FILM AFTER SCHOOL RELATED EVENTS FOR COMMUNITY SERVICE HOURS IN ORDER TO GAIN VITAL FIELD WORK EXPERIENCE OUTSIDE OF THE CLASSROOM SETTING.

CA244S Exploring Social and Digital Media

Exploring TV Production is a semester course that allows students to explore Broadcast Journalism in a variety of different ways. The students explore media in the 21st century using iPads and compact video cameras for on the go mobile journalism coverage. They will learn about streaming and V-logging through YouTube and will produce their own podcast show.

CA301 TV Production I

As the first in a four course series, students will learn the basics of TV/Video Production. The course begins with an introduction into the history of television. Through the development of field productions, students will learn the basics of television production, such as how to operate all field equipment, camera framings, angles and rules that apply in all aspects of field and studio production. In addition, students will learn the basics of Final Cut Pro, which is the non-linear editing system used by professionals to edit video. In addition to ensuring continuity and shooting for edit, editing is a skill that needs to be practiced consistently in order to become better at storytelling. Students will also learn how to write and shoot different types of scripts and to follow them through the filming process. All of these skills must be taught and worked on through the entire first year and are the foundation of video production.

CA401 TV Production II

Prerequisite: CA301

Students will continue to develop and advance their skills from TV Production I. The course begins with learning the Federal Communication Commission (FCC) laws, regulations and legal issues within television and advertising by covering all legal aspects of television production. In the first semester, students will review field equipment, framing, continuity and the basic skills of Final Cut Pro learned in TV Production I. They will be advancing on all those skills, with a large emphasis on advanced editing skills with Final Cut Pro. Students will learn about music use (licensing), advertising and TV programming through various field production projects. The second semester will be dedicated to studio production. Students will learn how to operate all studio equipment and understand how to function in a professional television studio setting. Students will be expected to treat each studio production as if it were a live program. Skills used in field production are carried over into studio production. Students are trained in advanced script writing for the teleprompter. They will be learning about producing different types of TV Programs in a studio, news broadcasting, how to write for TV News, and how to do the formatting for the UHS Morning News Show, both short format and long format.

CA344 TV Production III

Prerequisite: CA401

Students will learn to develop a news show while continuing to develop their skills in both field production and studio production. Students will learn new skills focusing in news broadcasting, where they will learn to develop, film and edit their own news package stories to air on long format news show days, as well as for Township of Union Channel 34/36. News packages will be produced for school and community events, and students will develop original story ideas. Students will continue to advance their writing techniques for TV news and practicing the rules of writing for the ear. Students will be considered as the Level One news team and will work behind the scenes of the morning news show to help the TV Production IV student crew members (Level Two team) develop the show by writing the scripts for the news show.

CA444/CA444A TV Production IV

Prerequisite: CA344

Students in this class will be considered as the Level Two 2 news show team and will act as interns for the UHS-TV Studio. Skills at this level should be well developed and mastered at this point. UHS-TV interns will develop and edit their own news packages and be the heart of the morning announcement news show. Students will work on a rotating schedule filling in all production roles to produce the show. Acting as news anchors, reporters, directors, technical directors, audio operators, teleprompter operators, camera operators, floor managers, video editors, script writers, editors, and producers, etc., the students will tape a “live” show each day. They will utilize a short format Monday-Thursday and a long format on Fridays, when news packages and/or interviews will air.

IE230 Graphic Design/Commercial Art I

This course is designed to help introduce the students into the world of design and communications. The course will help the student understand the role of graphic arts in our daily lives and network industries. This course introduces students into many aspects of the graphic communications fields through immersion in a curriculum, which embraces new computer and other technologies while still emphasizing traditional skills. Safe and orderly lab practices and work habits will be emphasized. Students will become familiar with the skills and principles of layout and design, bindery, package design, computer graphics, sublimation printing, three dimensional model making, silk screening. This course will help the student become familiar with the role of graphic arts in their daily lives as well as network industries. This course builds upon the curriculum of Graphic Communications. Students will continue advanced studies in the areas of layout and design, bindery, package design, sublimation printing, computer graphics, three dimensional model making, air brushing, engraving and thermal silk screening.

IE340 Graphic Design/Commercial Art II

Prerequisite: IE230

This course will help the student to further identify the broad role of the graphic arts industry. The student will become acquainted with the principles and practices of various graphic occupations and procedures. Safe and orderly lab routines and practices along with student work habits will be emphasized as the student receives instruction in layout and design, multi color screen printing, offset printing, plate making, computer graphics, digital photography and airbrushing techniques. This course will further help the student become aware of the daily impact that the graphic arts industry has in society. This course builds upon the curriculum of Graphic Communications IE-340-Y. Students will continue advanced studies in the areas of layout and design, multi-screen printing, computerized plate making, offset printing, digital photography, computer graphics, digital photography, airbrushing and thermal silk screening.

IE420 Graphic Design/Commercial Art III

Prerequisite: IE340

The purpose of this course is to help the student to identify the broad scope of graphic arts industry and to become further acquainted with the skills, knowledge and work ethics associated within the various graphic arts professions. The students will receive instruction in multi-color screen-printing, computer graphics, digital photography, thermal silk screening and airbrushing. This course will help the student to identify the broad scope of the graphic arts industry and its relationship to the economy. This course builds on the curriculum of graphic arts IE-420Y. Students will receive advanced instructions in multi silk-screening, computer graphics, digital photography airbrushing and thermal silk screening.

IE520 Graphic Design/Commercial Art IV

Prerequisite: IE420

This advanced class offers continuing education in the areas of graphic designing, digital photography, computer graphics, silk screening, airbrushing and the opportunity to participate in an internship and shadowing program that will provide the student with firsthand experience into the graphics industry. This class is designed to help the student to prepare for careers in the graphic arts industries by giving them the opportunity to work in the graphics industries via an internship or shadowing program. The student will also receive advanced studies in silk screening, airbrushing and digital photography.

IE250 Introduction to Woodworking

This course is an introduction for the student who is interested in the field of woodworking technology. Woodworking fundamentals in design, drawing, and bills of materials, reading plans, wood identification and lumber processing technology is covered. Methods in the safe and proper use of basic hand tools and processes such as layout, measuring, boring, drilling, sawing, fastening and planning will be taught. Other processes covered will be in the use of abrasives, basic finishing techniques and basic safety in using hand tools. Lab work will include the completion of two approved hand tool projects.

IE360 Woodworking II - Advanced Machine Woodworking

Prerequisite: IE250

This course is intended to develop a deeper understanding of the proper use and safety involved with woodworking stationary and portable power tools through the construction of advanced wood jointing used in the furniture making industry. Frame construction, door construction, drawer and drawer glides and associated hardware are covered. Students will explore advanced techniques, methods and technologies in the woodworking industry and develop an understanding of wood identification and the lumber industry, wood veneers, laminating and wood bending, finishing materials and techniques used in the furniture and cabinet making industry. Lab work will include an approved project design, project programming for the computerized lathe, and the finishing method of the required project.

IE460 Woodworking III - Woodworking for the Craftsman

Prerequisite: IE360

This course requires the student to direct his/her energies toward attaining a maximum amount of skill, artisanship and knowledge in the furniture and cabinet-making industry. The latest techniques and construction methods in cabinet and furniture making, design and furniture productions as well as the latest technological advancements are studied. Research will be done in the following technological areas: footings and foundations, framing floors, walls and ceilings, roof framing and roofing, windows, exterior doors and trim, interior finish, post-and-beam and prefabricated construction. Lab work will include the construction of one approved project to challenge the artisanship of the individual student and the construction of one approved sectional or complete scale model of residential house framing incorporating topics covered.

IE560 Woodworking IV - Carpentry & Construction

Prerequisite: IE460

This course is solely for students who have successfully completed IE-460. Semester 1 begins with the reading of survey and blueprint plans. The use of related tools in the layout and construction of footings and foundations are examined. Students will experience the framing of sill plates, beams or girders, floor joists, subfloor, and wall studs, and headers in windows and doorways. Semester 2 continues with an investigation of portable equipment used in the carpentry trade. Use of a framing square in the layout of stair stringers, railings and building codes will be presented and this technology will be incorporated in a model deck construction project. Careers in the carpentry industry will be explored as will the role of a subcontractor.

TE100 Technical Education I

This course is intended for the technically oriented student who enjoys utilizing a problem solving approach to explore various areas of technical systems. Students will be exposed to technical learning activities to enhance their practical experience in the design process.

TE200 Technical Education II

Prerequisite: TE100

This course is intended for the student considering a career in engineering, architecture, or any other design field. Students must successfully complete TE100. Students will work at their own pace to research and design solutions to technological problems presented in this course. Students will build their solutions using a variety of techniques and materials.

TE150 CAD I Drafting and Design

CAD I DRAFTING AND DESIGN introduces the student to the equipment, standards and language of the drafting industry. Students will be introduced to basic drawing board procedures and then the computer for drafting and design purposes. The student will become familiar with Windows operating systems, the program itself (AutoCAD), directories, keyboard, disks, menus, files, construction and problem solving. The program is designed to give the students the skills in both drawing board theory and the computer to solve drafting and design related problems and to produce accurate working drawings. Areas of concentration include: single view drawings, geometric constructions, orthographic projection, dimensioning and pictorial drawings. CAD I is a hands on course where class participation plays a major role in evaluation. After introduction to an area of concentration through lecture and demonstration, the student will hone the skill by repeat demonstration on the computer using appropriate procedures and techniques. Drawing projects, homework, tests/quizzes and class performance are the rubric for evaluation. A final exam in conjunction with the listed evaluation will determine the student's overall grade.

TE 250 CAD II Drafting and Design

Prerequisite: TE150

CAD II - DRAFTING AND DESIGN enhances the skills learned during the first level and continues the study in the use of the computer with attention to more challenging projects and the fine points of drafting standards. Instruction in: advanced orthographic projection and dimensioning, sectional views, auxiliary views, revolutions, threads and fasteners, developments and intersections, advanced pictorials and an introduction to architectural drafting will be explored. CAD II - DRAFTING AND DESIGN is a hands on course offering where class participation plays a major role in evaluation. After an introduction to an area of concentration through lecture and demonstration, students will hone the skills by repeat demonstration on the computer using appropriate procedures and techniques. Drawing projects, homework, tests/quizzes and class performance are the matrix for evaluation. A final exam in conjunction with the listed evaluation will determine the student's overall grade.

TE 350 CAD III Drafting and Design

Prerequisite: TE250

After a brief introduction to architecture in the second level course, the student will enhance skills required to develop and produce a set of working drawings for a single family residential structure. The student will be introduced to the construction industry, building techniques and blueprint reading. Development of a set of plans that include: sectional plans, foundation and floor plans, elevations, dimensioning and electrical plans, a plot plan, window and door schedules, perspective rendering and a variety of detail drawings will be completed. The experience will culminate in the construction of a scale model of the students design. CAD III - DRAFTING AND DESIGN - ARCHITECTURE AND ADVANCED TECHNICAL DESIGN is a hands on course offering where class participation plays a major role in evaluation. After introduction to an area of concentration through lecture and demonstration, the student will enhance the skill by repeat demonstration on the computer using appropriate procedures and techniques. Drawing projects, homework, tests/quizzes and class performance are the matrix for evaluation. A final exam in conjunction with the listed evaluation will determine the student's overall grade.

TE450/TE450A CAD IV 3D Modeling and Rendering

Prerequisite: TE350

CAD IV introduces the student to the world of 3D modeling/Printing and Rendering. They will learn three dimensional Modeling so they can develop and enhance their drawing and computer skills under supervised independent study in three major areas: machine drafting, architecture and / or design and problem solving. Students will work independently creating primitives and composites, viewing and displaying three dimensional model, model extrusions and revolutions, sweeps and lofts, mesh modeling, advanced surface modeling, and Solid modeling. CAD IV – 3D Modeling and Rendering is a hands on course offering 3D-Cad, Sketchup, and MakerBot Software for a wide range of applications such as architectural, interior design, and engineering. This level will help users explore design ideas, visualize concepts, and simulate how designs will perform in the real world. Digital Prototyping tools will help with their experience in 3D designs virtually, before they are built by connecting every phase of the design process through a single digital model to let students test and optimize 3D designs, helping to drive innovation and to achieve higher quality. This is a project based learning environment where projects will be given as assignments in order to fulfill classroom participation. *Students completing the four level course offerings are eligible to take the AutoCAD Certified User Exam. AutoCAD CERTIFICATION is an international program that provides reliable validation of knowledge and skills. These credentials can lead to accelerated professional development, improved productivity, and enhance credibility. The AutoCAD Certification include both academic and industry requirements designed to confirm that Autodesk AutoCAD software users have the skills necessary to continue their design careers-whether they attend college, enter the workforce, or work toward additional levels of industry certification. Certification enables drafters to demonstrate professional capabilities and helps employers in identifying quality employees.

TE550: Introduction to Drone Theory & Design

Enrollment: Grades 11 and 12

Prerequisite: TE150 AND TE250

The Introduction to Drone Theory & Design course is designed for the advanced CAD / Engineering student. This advanced course will cover how to build drones and understand all of the different components that make it fly. Students will also learn specific skills needed to repair quad copters. Students will learn to apply teamwork and problem-solving techniques to the drone design process and learn about current uses, potential careers, and future needs for drone technology and engineering.

HE210 Clothing I

This course is designed as an exploration of the many facets of clothing selection and grooming. The principles of color, line, and design will be introduced and applied. Students will learn hand and machine sewing techniques needed to complete at least two machine projects. The emphasis in this course is the repetition and use of basic sewing skills in the completion of more detailed garments. Techniques and skills new to the students are introduced and applied. The use of the overlock machine (Sergger) as well as decorative machine stitching will be included for use during this semester. A unit on fibers and fabric production will be stressed. At least two garment projects will be required.

HE310 Clothing II

Prerequisite: HE210

In this advanced course, the basic principles of construction and design are reviewed and applied. Advanced clothing skills, including special seams and seam finishes, are taught and practiced. At least two garment construction projects will be required. This course is designed to provide a survey of good consumerism and decision-making in the selection, purchase, and care of items for the wardrobe. Students must complete at least two garments, the degree of which will be determined after consultation between the teacher and student based upon needs, interests, capabilities, and backgrounds. Simple pattern alterations will be demonstrated and practiced for later use in projects chosen.

HE320 Clothing III

Prerequisite: HE310

The purpose of this course is to teach students the techniques of proper pattern fitting and alterations to give garments a more professional look. Students will apply these techniques by constructing at least two garments. Use of the computer will be introduced during time devoted to the study of various fashion careers. This course is geared to the student who wishes to create garments with the professional look. Projects that combine techniques not used before will be considered appropriate requirements for the course. At least two garments will be required.

HE340 Clothing IV

Prerequisite: HE320

In this advanced course, students will apply skills, methods, and techniques previously learned to produce garments that are high in quality and well-fitting. Fully lined garments and multiple piece outfits will be considered appropriate projects for this course. In this final course, individual design ideas will be transformed into reality. Students will have the opportunity to combine parts of various ready-to-wear patterns into their own basic sample. After making a sample garment, students will make their final project using fabrics of their choice.

HO310 Allied Health I

Prerequisite: 74% or higher average in *Biology, Algebra, Chemistry, Interview, Letter of interest*

Allied Health I centers around the Dynamics of Health Care in Society. It is an orientation to health care and delivery, from an interdisciplinary perspective, with a focus on process skills to include critical thinking, ethical reasoning, effective communication, and self-directed learning abilities. The professional competencies stress application to general issues and topics common to all health care providers. Emphasis is placed on the role of the health care practitioner as both provider and consumer of health care services. This class serves as an orientation to health care and delivery, from an interdisciplinary perspective, with a focus on process skills to include critical thinking, ethical reasoning, effective communication, and self-directed learning abilities. The professional competencies stress application to general issues and topics common to all health care providers. Emphasis is placed on the role of the health care practitioner as both provider and consumer of health care services.

The course provides students opportunities for career and college readiness. Students will begin with education regarding the history of healthcare including inventions and technology. There will also be instruction regarding proper academic writing for healthcare education, which will include practice with APA format. Students will gain a strong knowledge base on the healthcare delivery system, including healthcare agencies and careers. The course will also review ethics, economics, and cultural diversity in healthcare. Infection control and safety will be taught and practiced. Students will learn about workplace safety and the roles and responsibilities of a healthcare worker.

This course also focuses on fundamental knowledge and clinical skills necessary for assistants in various health care areas. These include an understanding of the skills and procedures performed by a certified nursing assistant or physical therapy aide. In addition, the student can obtain a basic understanding of the medical billing process. Students will also learn about preparation for healthcare education, requirements and employability skills in healthcare.

HO410 Allied Health II

Prerequisite: *HO310 with a grade of B or higher. 74% or better average in Biology, Algebra and Chemistry*

Completion or concurrent enrollment in SC443 suggested

Allied Health II center on the Introduction to Medical Terminology and is designed to introduce students to a new language of medical terminology, provide exposure to emergency medication, and utilize prior knowledge of healthcare dynamics and apply it to skills and procedures. This course is useful in preparing students for allied health careers such as nursing, medical assisting, radiology, health information management, respiratory therapy, physical therapy, occupational therapy, etc. This course is a dual enrollment class with Rutgers School Health Science Program for college credit. Medical Terminology is the study of words that pertain to body systems, anatomy, physiology, medical processes and procedures and a variety of diseases. It provides specialized language for the health care team, enabling health care workers to communicate in an accurate, articulate and concise manner. This course is designed to give the students a comprehensive knowledge of word construction, definition and use of terms related to all areas of medical science. The course includes but is not limited to terms related to anatomy of the human body, functions of health and disease, and the use of language in diagnosing and treating conditions related to all of the human body systems. Emergency and Clinical Care is a also a focus in this course. Students are taught how to respond to emergencies before medical help arrives. The course is designed to give the student the knowledge of how to recognize and respond to an emergency. The intent of the concentration is to help the student feel more confident in his/her ability to act appropriately in the event of an emergency. Students are prepared to 1) obtain a patient medical history, 2) take and record vital signs relative to medical/dental treatment, and 3) acquire cardiopulmonary resuscitation certification/basic life support for medical professionals. The course will also focus on an introductory exposure to clinical assessments and skills related to healthcare careers. Students will participate in simulations requiring healthcare documentation and critical thinking. Students will receive instruction regarding basic first aid and emergency response. Upon successful completion of the course, students will be able to comprehend a medical record report, communicate among medical professionals, participate in assessment and interventions for various healthcare specialties, understand basic first aid and emergency response, and have a high-level understanding of medical terminology.

VT334 Cosmetology I

Enrollment: Grade 11

Prerequisite: *Application, test and an interview with the instructor*

This course is for the student who wants to become a licensed Cosmetologist. As per the New Jersey State Board of Cosmetology the student must complete the required 1,000 hour course and be prepared with an average of 75% in both the written and practical part of the curriculum in order to be eligible to take the SPECIAL New Jersey State Licensing Examination before graduating. The curriculum provides sufficient hours within the course for completion. It is **mandatory** to have **excellent attendance** in order to fulfill this requirement. Credit hours will not be given to the student who does not participate in class. This course is designed to introduce the student to the world of Cosmetology and its unlimited opportunities. The following areas will be covered: good grooming and hygiene, positive and reliable work behavior, positive work attitudes, good interpersonal skills, maintaining a professional image, adapting to change, career decisions, labor market information, decontamination and infection control and bacteriology. Techniques studied will include: properties of the scalp and hair, draping, shampooing and rinses, permanent and finger waving, wet and thermal hairstyling, manicuring and pedicuring, nail disorders and diseases, skin disorders and diseases, basic hair shaping, an understanding of chemical hair relaxing, hair coloring and lightening, removal of superfluous hair, hair pressing, facial massage and makeup application. Safety instruction and lab cleanliness will be integrated into the activities along with the correct use of equipment and materials in order to help the student apply safety principles and practices to activities of daily living, both in and out of school, and to help the student to work more efficiently.

VT444 Cosmetology II

Enrollment: Grade 12

Prerequisite: VT334

This course follows the Cosmetology I course and provides the student with the remaining hours and course of study required for state licensure. It is designed to give the student a basic understanding of the beneficial effects of electricity and light therapy as used in the beauty salon. The following areas will be covered: introduction to anatomy, physiology and advanced cosmetics, advanced techniques in permanent waving and hair coloring lightening, introduction to wigs, salon management and an introduction to the history of barbering. Students will have the opportunity of performing chemical treatments and other beauty services to patrons in the "Senior Cosmetology Clinic." This course will also cover the techniques of shaving, the history of barbering and continual hands on practice.

This course will continue to emphasize beauty salon salesmanship and management. All skills will be demonstrated, reviewed and continually practiced in preparation for the Cosmetology State Board Licensing Examination. At the successful completion of this course, students will have the opportunity to take the Cosmetology State Board Licensing exams (practical and written) for certification and licensing as a professional cosmetologist.

Visual/Performing Arts Department Course Offerings

AR213 General Art

An introduction to the use of various art materials and techniques including drawing, watercolor, printmaking, sculpture and collage. The elements of art and design will be explored. Emphasis is on personal expression. A beginner's exploration of two and three-dimensional media. The principles of art and design will be explored. Creativity and self expression will be encouraged.

AR201 Drawing: Basic Drawing, Still Life & Landscape

A beginner's course designed to help students heighten their skills in visual observation and to become familiar with the tools and methods of drawing. Students will learn a full range of drawing techniques and will experiment with a large array of materials and methods.

AR215 Advanced Drawing

Prerequisite: AR201

The students will build their skill levels and will create original drawings which are highly conceptual. Students will continue to create observational renderings, depicting subjects such as portraits, figures, still life; from a variety of sources, including full studies of skeletal structures. Students will also draw landscape renderings. They will continue to explore and experience art materials; charcoal, pastels, pen and ink wash and will learn how to design, cut and print lino block prints. Critique is an essential component of this course and includes verbal critique and the written form.

AR202 Painting I

Representational - Painting in watercolor, tempera, acrylic, and oil of landscape, still life, portraiture, and the figure with emphasis on interpretations of observations. There is a large emphasis on color theory and on painting technique.

AR210 Advanced Painting

Prerequisite: Minimum grade of B in AR202

Students will study the style of famous artists. Emphasis will be placed on the development of individuality of style and interpretation in student paintings.

AR204 Photography

NOTE: Purchase of camera required

Black and white photography employing the still camera, photographic techniques film processing, and darkroom techniques of contact printing and enlarging. Emphasis on the still camera. Learning advanced techniques of sepia toning and hand-coloring. In addition, the history of photography as an art form. Students will also be drawing, using collage and using mixed media techniques to reinforce concepts.- A film camera is required for this course.

AR209 Photography II

Prerequisite: Minimum grade of B in AR204

This class is designed to teach students the art of telling a story through the lens of a camera. New photo techniques, high contrast and solarization will be explored. Advanced techniques in printing and experimentation will be presented. Related class work includes the study of photojournalism, surrealism and the famous photographers in those fields. A film camera is required for this course.

AR409 Advanced Placement Photography

Prerequisite: AR204

AP photography is designed for highly motivated students who are committed to the study and creation of visual art through the use of photography and digital manipulation. Students will be expected to explore and create a body of work that focuses on one specific theme or concept in the span of one school year. Using guidelines established by the Advanced Placement College Board, students must prepare a portfolio of their best work to be submitted for the AP exam. A digital camera is required for this course.

AR205 Art History

A chronological study of great periods in the history of eastern and western art from early cave paintings through the Renaissance. Related studio activities and art criticism will be an integral part of this course. A chronological study of great periods in the history of eastern and western art from the Baroque period through the twenty-first century postmodernism. Related studio activities and art criticism will be an integral part of this course.

AR206 Advanced Visual Arts Studio

AR206A AP Advanced Visual Arts Studio

Prerequisite: Teacher recommendation, two full year art courses with a minimum B average in each

Students will work in the media of their choice throughout the school year. This course will provide opportunities for individual expression, style development, and portfolio preparation and review. Students may choose drawing, 2D or 3D design portfolio concentration.

AR211 Ceramics & Sculpture

Ceramics/Sculpture is a full year course focusing on the art of hand building and understanding three-dimensional design concepts. The course introduces an assortment of ceramic hand building techniques such as pinching, coiling, slab construction, press and drape molds. The student's will learn about the properties of clay, develop the technical skills of hand building and become familiar with firing and glazing. Experiences in ceramics/sculpture will include working in other sculptural materials such as wire, wood, plaster and paper. Lessons will include studio work, class discussions, research, sketching and taking notes in their notebooks and critique their own work as well as the works of other artists. The students will explore and complete various ceramics/sculpture activities using the elements of art and principles of design and other concepts fundamental to art making, which will be further developed. The students will complete a series of projects in accordance with the New Jersey Student Learning Standards.

AR311 Advanced Ceramics

Prerequisite: Minimum grade of B in AR211

Advanced Ceramics/Sculpture is a full year course built upon the knowledge and skills learned in ceramics/sculpture AR211. Students who enroll in advanced ceramics/sculpture must have had ceramics/sculpture as a prerequisite and have attained a minimum of a B. The major emphasis of this course is to extend the students technical skills and conceptual approaches to the medium of clay, wire, wood and plaster in the creation of three-dimensional objects. Students will further explore coil building, soft and leather hard slab construction, working on the potters' wheel, carving plaster, modeling clay, creating figures in wire, casting and assemblage. Lessons will include studio work, class discussions, research, sketching in their sketchbook and critique their own work as well as the works of other artist. The students will explore and complete various ceramics/sculpture activities using the elements of art and the principles of design and other concepts fundamental to art making, which will be further developed. The students will complete a series of projects in accordance with the New Jersey Student Learning Standards

AR212S Crafts

The ideal course for the student who likes crafting but does not want to concentrate on a particular area. Enroll in Crafts and learn to do ceramics, sculpture, carving, mobiles, stabiles, and metal design. Something for everyone. This course is designed for those students who want to learn the skills and techniques which will produce beautiful craft work. Learn about applique, batik, tie-dye, enameling, and weaving.

AR214 Fashion/Design

Think and create like a designer. Examine style, world culture, technology, and it's influence on the world of design. Learn what inspires ideas for new products, fashions, and designs in all of the arts.

AR220 Digital Arts I

This course is intended to introduce students to basic digital imaging manipulation skills within the Fine Art context of creative expression. Using Adobe Photoshop, students will be able to apply various special effects, filters, layers and masks to explore the creation of artistically expressive images. Emphasis is placed on the elements and principles of design throughout the course. Visual problem solving skills are explored through the computer and compositing images together. A general understanding of using a computer is expected.

AR230 Digital Arts II

Prerequisite: Minimum grade of B in AR220 or permission of instructor

Students will use the content and skills learned in AR-220 to create desktop publications in a Macintosh lab. Students will also experiment with other digital arts learned in AR-220. Students will employ computer applications including Adobe InDesign, Adobe Photoshop, Adobe Illustrator. Students will use the content and skills learned in AR-220 to create complex website designs gif animation and custom designed graphics. Students will also create other projects using skills learned in AR-220.

AR330 Digital Arts III

Prerequisite: Minimum grade of B in AR230 or permission of instructor

Students will utilize non-linear editing applications Apple iMovie and Final Cut Pro to plan, shoot, and edit short original films. Students will also create other projects using application skills learned in AR220. Students will utilize multimedia production applications such as Microsoft Powerpoint, Apple Final Cut Pro and Apple Keynote to create original computer based presentations. Students will also create other projects using application skills learned in AR220.

AR430 Digital Arts IV

Prerequisite: Minimum grade of B in AR330 or permission of instructor

Individual Exploration Level 1- Students will employ all skills and work toward the creation of a portfolio in digital arts in their area of interest utilizing a variety of applications in a computer lab environment. Individual Exploration Level 2- Students will employ all skills and produce art work in the area of digital arts in their area of interest utilizing a variety of applications in a computer lab environment.

Music Department Course Offerings

MU125/225/325/425 Concert Band

NOTE: Placement determinations into Concert Band/Orchestra in consultation with instructor

Open to all students who possess performance skills on band instruments. This course is directed toward the improvement of each student's individual performance, understanding, and interest in a recognized art form. The study of technique building exercise, transportation, sight-reading, and performance of a variety of symphonic band literature will be included in the course of study.

MU115/215/315/415 Jazz Ensemble

Prerequisite: audition / MU115 by middle school recommendation only

Open to students approved by the high school instrumental music teacher. This course is designed to develop performance in the jazz idiom, training students in ensemble, sectional, and improvisational techniques. Musical styles of the various eras of jazz will be studied and performed.

MU120/220/320/410 Wind Ensemble

Prerequisite: audition / by recommendation only

Wind Ensemble is designed to focus on creating, performing and critiquing advanced concert band literature, as well as historical and cultural aspects of the performance genre. Wind Ensemble students will perform with the concert band and learn all music for full orchestral performances. All students will experience skill building, personal expression and self-confidence in all areas of performance. Admittance to the wind ensemble is by audition and/or the recommendation of the high school band director only.

MU135/235/335 Music Theory

This course forms a foundation of knowledge and skills in music that is valuable to the vocalist, instrumentalist or song writer. Students who plan to continue musical studies after high school will find the materials covered both necessary and useful. The grand staff, clefs, tetra chords, key signatures, cycle of fifths, intervals, triads, seventh chords, four-part harmony, voice leading, diatonic and chromatic harmony, rhythms, orchestration, composition, melody writing, and music calligraphy are included in the course of study.

MU435 AP Music Theory

Prerequisite: MU335 grade of B or permission of instructor

This course builds on a foundation of knowledge and skill in music developed in Music Theory. Students who plan to continue musical studies after high school will find the materials useful, as the course is comparable to a first year college music theory curriculum. A more in depth analysis of melodic and harmonic structure will be explored, including counterpoint, voice-leading and four-part chorale writing, cadences, non-harmonic tones, texture, phrase structure, modulation, secondary dominants, and form.

MU145/245/345/445 Musical Theater

This performance based course is open to all students regardless of experience. Studied in this course will be a survey of the evolution of musical theatre beginning with the early American influences of vaudeville, burlesque, extravaganza, opera and operetta. Particular attention will be given to works of Jerome Kern, George & Ira Gershwin, Rodgers & Hart, Lerner & Loewe, Rodgers & Hammerstein, Stephen Sondheim and Kander & Ebb.

Activities will include a variety of “hands on” experiences with importance centered on process and actual performance. Students will have the opportunity to develop both their acting and singing skills. Emphasis will be placed on audition technique, scene study, technical theatre skills and basic theatre knowledge.

MU155/255/355/455 Orchestra

NOTE: Placement determinations into Concert Band/Orchestra in consultation with instructor

Open to all students who possess performance skills on orchestral instruments. Here, students will discover the full range of orchestral and chamber music literature from various musical periods. Wind players are selected to rehearse with the strings on the basis of overall balance of instruments and instrumental teacher recommendation.

MU165/265/365/465 Concert Chorus

This course is designed to guide the “non-musician” through a basic vocal training program. This full year course involves the basic fundamentals of music and singing technique and performance. Through the choral repertoire, students will explore their vocal potential as well as develop their musical vocabulary and knowledge of music theory.

MU175/275/375/475 Show Choir

Prerequisite: audition / by recommendation only

Show Choir is geared toward the student who possesses a proficiency in using the voice as an instrument and has experience singing in a choir. Students are selected for this course by audition or recommendation and should have an average knowledge of music fundamentals and vocal principles. This program will enable the student to make an appreciable contribution to the musical life of the community. Students will understand the style, period and compositional techniques of octavos performed and hone skills for sight singing.

MU285/385/485 Advanced Musical Theater

Prerequisite: any level Musical Theater, audition / by recommendation only

This performance-based workshop is designed for advanced musical theatre students ready to develop their skills on a professional level by refining students' vocal technique and expanding traditional, classical acting methods as required for the specialized techniques of musical theatre. Study includes larger scene-song forms including one-acts or new-works from the musical theatre. The course will challenge the musical actor through the study of repertoire from some of Broadway's most acclaimed productions, in a comprehensive range of American musical theatre; styles including Musical Comedy, Golden Age Musical Drama, Concept and Rock Musicals. This specialized class allows for a more individualized approach, with students learning through a combination of coaching, master class setting, and small group rehearsal. Course also emphasizes creating a resume, types for interviews, obtaining an agent, personal appearance, and dress as well as work on audition material, ranging from musicals to stock productions. Students will explore contemporary musical theatre production through research, rehearsal and performance. Students will synthesize this learning by rehearsing and staging scenes and solo and ensemble numbers culminating in a performance of a student run and directed musical.

Physical Education and Health Course Offerings

PE101/201/301/401 Health

The health curriculum, or life skills curriculum as it is now called, is designed to foster self-responsibility and the skills to promote a long responsible life. The focus is on student decision-making by giving the information students need to understand various aspects of health and wellness, and to provide instructional strategies to help students evaluate information so that they can make wise health and lifestyle choices. Health instruction is augmented with guest speakers, films and videos, oral and written reports, weekly current events discussions, periodic quizzes and a final examination. Students who are medically excused for the year must take health during the quarter in which their grade is scheduled.

Grade 9 Health	Grade 10 Health	Grade 11 Health	Grade 12 Health
Self Esteem Decision-making tools Communication Skills Family Living Drug/Alcohol/Tobacco Education AIDS Education DARE Education	Driver Ed Theory AIDS Education Drug/Alcohol/Tobacco Education	Emotion's Effect on Behavior Emotion's Effect on Physical Mental Mechanisms Neuroses Psychoses Treatment of Mental Illness Alcohol/Drug/Tobacco Education Family Living AIDS Education Nutrition First Aid CPR	Family issues Relationships Parenting The study of physical and social issues in society AIDs Education

PE100/200/300/400 Physical Education

Physical education is designed to foster a greater understanding of the major role of exercise and fitness. Team sports and game activities will be included. In addition to the main fitness objectives, team. Emphasis is on health and fitness practices that will affect the students' total well being and lead to a lifetime of good health and personal happiness. The focus will be on improving the personal fitness levels of all students in all grades. Written tests, skill tests, together with degree of participation, preparation for class, and attitude, will determine a student's mark. The Physical Education program consists of an elective program grades 9-12. This allows the students the opportunity to choose from the courses offered.

Team Sports	Individual Sports	Individual/Life Sports
Basketball Field Hockey Floor Hockey Football (flag or touch) LaCrosse Soccer Softball Speedball Volleyball Frisbee	Aerobic Exercise Jogging Physical Fitness Track & Field Weight Training Tae-Bo Golf	Aerobic Exercise Badminton Frisbee Physical Fitness Tennis Weight Training Aerobic Dance Basketball Dance (Folk & Social) Line Dance Project Adventure

Department of Military Science Course Offerings

The Military Science program, Army Junior ROTC, is designed to meet the needs of those students who wish to undertake the study of leadership development. The course will give the students an opportunity to improve in many ways: it uses military skills to teach self-discipline, respect for constituted authority, self-confidence and pride in a job well done. The program also offers challenges and opportunities to sharpen communication skills; promote citizenship; develop leadership potential; improve physical fitness; provide incentives to live drug-free; encourage graduation from high school and build a solid foundation for career development.

Students will have the opportunity for four-year college scholarships offered by ROTC programs of the Army, Navy and Air Force. This AJROTC program also provides nominations to the United States Military Academy at West Point, the U.S. Air Force Academy and the U.S. Naval Academy. For students who wish to take advantage of the GI Bill for college, AJROTC provides high school graduates with advanced promotion and higher pay when enlisting in the active U.S. Armed Services, Reserves or National Guard. A student who participates in AJROTC has absolutely no obligation to serve in the Armed Services of the United States.

All AJROTC students are provided opportunities for promotion and increased responsibility within the cadet organization based on merit and potential. Successful completion of all academic assignments and satisfactory conduct will permit students to advance to the next LET (Leadership, Education, and Training) level. Students who have continually demonstrated a poor attitude will be counseled and evaluated to determine their retention and advancement in AJROTC.

MS100 JROTC I

The student should understand the history, purpose, and objectives of the ROTC program, both junior (high school) and senior (college) programs; wearing of the uniform, customs and courtesies of the service; respect to the flag and national anthem; organizational principles; development of basic managerial and leadership skills, principles of oral communications; drug and alcohol abuse/control; first aid; basic drill and ceremonies; and the appreciation of physical fitness.

MS200 JROTC II

Prerequisite: MS100

The student should learn leadership techniques, management procedures and characteristics, the procedures of drill and ceremonies, conduct of physical readiness training, basic map reading and first aid skills, techniques of oral communications, service/ROTC opportunities, and the effects of interpersonal relationships.

MS300 JROTC III**Prerequisite:** MS200

The student should learn the role played by the U.S. Army in support of national objectives, applied leadership skills, conduct of marksmanship safety program, applied land navigation and physical readiness training techniques and intermediate methods of instruction and communication skills to include presentation of instructional materials.

MS400 JROTC IV**Prerequisite:** MS300

The student should demonstrate the ability to apply advanced leadership techniques, staff functions and responsibilities, advanced conduct of drill and ceremonies, and the ability to conduct physical readiness training programs for subordinates within the cadet organization. The student should also know the key elements associated with American military history and application procedures for the Uniform Code of Military Justice.

World Language/ESL Course Offerings

WL345 Spanish Heritage Speaker I

Prerequisite: WL142 and recommendation or special permission

Prerequisite: Heritage speaker status, testing or Teacher/Guidance recommendation

WL445 Spanish Heritage Speaker II

Prerequisite: WL345 and recommendation or special permission

Prerequisite: Heritage speaker status, testing or Teacher/Guidance recommendation

This is a course for the heritage speakers of Spanish who wish to further develop and reinforce listening, speaking, reading comprehension, conversational, writing and critical thinking skills. The level of mastery will vary with each student according to one's own personal experience. The text is supplemented by vocabulary based on real life situations and culture, necessary to engage heritage speakers in discussions and essays about art, literature, science, history, commerce, etc

WL043 Basic Spanish Conversation

Students will learn to converse in the target language on a basic level, so that they may travel to the countries where the target language is spoken. The students will also learn about the culture, customs and foods of the countries.

WL142 Spanish I

This in beginning Spanish will introduce the students to the fundamentals of correct Spanish pronunciation. It will also provide them with a basic vocabulary and some of the fundamentals of Spanish grammar. The goal of the course is to develop a foundation for understanding, speaking, reading, and writing Spanish at the most basic level.

WL242 Spanish II

Prerequisite: WL142

This is a course in intermediate Spanish. This course will begin with a review of the basic structures which were developed in the first year of the study of the language. The building of an adequate conversational vocabulary will receive continued emphasis. All linguistic skills acquired in elementary Spanish will be maintained and advanced. Reading of selected graded texts will continue. Motion pictures, slides, and filmstrips will reinforce the culture lessons.

WL241 Honors Spanish II

Prerequisite: WL142, application

This is a course in intermediate Spanish. This course will begin with a review of the basic structures which were developed in the first year of language study. The accelerated student will be introduced to interesting supplemental work on the cultural aspects of the language. Motion pictures, slides, and filmstrips will reinforce the culture lessons.

WL342 Spanish III

Prerequisite: WL241/WL242 (with a grade of B recommended)

This is a course of the third year for the student who wishes to continue the study of Spanish with emphasis on perfecting grammar and writing skills. An overall review of Spanish grammar plus an introduction to finer points, idiomatic expressions, and colloquialisms not touched on at the first two levels will be completed. This course expands and emphasizes the basic skills of listening, speaking, reading, and writing. The text is supplemented by vocabulary based on real life situations and culture.

WL341 Honors Spanish III

Prerequisite: W241/WL242, application

This course is designed for the more able student. Enrollment is by application.

This course expands and develops communicative skills in Spanish and teaches the students more about Spanish and Latin American cultures. Cultural topics and thematic vocabulary will serve as the point of departure for conversation and projects, both oral and written. Speaking, listening, reading, and writing skills in the target language will be emphasized. In this Honors class, topics will be covered in greater depth, and there will be more time for additional activities.

WL440 Project Acceleration

Prerequisite: WL341/WL342, application

The Project Acceleration course is an extensive review and refinement of previously learned grammar with in-depth instruction of the Subjunctive Mood and new vocabulary, in addition to instructional content reflecting a variety of topics such as the geography and history of Spain and Latin America moving into the 21st Century with its challenges in the world of work, a multicultural society, young and old, and stereotypes. Excerpts from classical and contemporary literature, film, poetry, current newspaper/magazine articles, non-technical writings in addition to the textbooks will also be studied. Discussions in the target language will perfect students' pronunciation and communication skills. Students will engage in extensive practice in organizing thoughts in order to speak, write and present in the target language. Students of Project Acceleration must comply with additional testing/research projects in order to qualify for the six college credits available to each student from Seton Hall University. This course is equivalent to Intermediate Spanish 1 and Intermediate Spanish 2 at the university level.

WL441 Honors Spanish IV

Prerequisite: WL341/WL342, application

The Spanish IV course is an extensive review and refinement of previously learned grammar and vocabulary, in addition to instructional content reflecting a variety of topics such as leisure time activities, family relationships, music, environment, communication, Spain and Latin America in the 21st Century, the world of work, a multicultural society, young and old, and stereotypes. Short contemporary literature, film, poetry, current newspaper/magazine articles, other non-technical writings in addition to the textbook will also be studied. Discussions in the target language will perfect students' pronunciation and communication skills. Students will engage in extensive practice in organizing thoughts in order to speak, write compositions and generally communicate in the target language.

WL540 AP Spanish

Prerequisites: WL441/WL541, application

Advanced Placement Spanish is an extensive review and refinement of previously learned grammar and vocabulary. Instructional content reflects a variety of topics such as origins, development and evolution of the Spanish language, leisure time activities, family relationships, customs and beliefs, the urban versus rural environment, communication, Spain and Latin America in the 21st Century, the world of work, a multicultural society, gender roles and stereotypes, education, revolutionary movements and the Hispanic presence in the United States. Short contemporary literature, film, poetry, current newspaper/magazine articles, other non-technical writings in addition to the textbook will also be studied. All lectures, discussions, written work, presentations and note-taking in the target language will perfect students' pronunciation and communication skills. Students will practice for the AP Spanish test through extensive practice in organizing thoughts in order to speak on tapes, write compositions and take timed practice AP tests.

WL541 Honors Spanish V

Prerequisite: WL440/WL441, application

The Spanish V course is a thematic introduction to literature, art and culture of the Hispanic world as well as a review and refinement of previously learned grammar and vocabulary. Instructional content reflects a variety of topics such as origins, development and evolution of the Spanish language, leisure time activities, family relationships, customs and beliefs the urban versus rural environment, communication, Spain and Latin America in the 21st Century, the world of work, a multicultural society, gender roles and stereotypes, education, revolutionary movements and the Hispanic presence in the United States. Short contemporary literature, film, poetry, current newspaper/magazine articles, other non-technical writings in addition to the textbook will also be studied. All lectures, discussions, written work, presentations and note-taking in the target language will perfect students' pronunciation and communication skills.

WL641 Honors Spanish VI

Prerequisite: WL541, application

Advanced Spanish for Careers - This course is designed to address the real needs of our most proficient students in the workplace. The course will focus on utilitarian applications of Spanish to business and commerce. Some degree of independent study is an integral part of the course.

WL112 French I

This course in beginning French will introduce the student to the structures of modern French on the most basic level. It will provide training in pronunciation and vocabulary. There will be practice in speaking, and easy readings from selected graded texts will be included. Culture of France and the French speaking world will be introduced.

WL212 French II

Prerequisite: WL112

This is a course in intermediate French. A review of the basic structures, which were developed in the first year of French, will constitute the first weeks of work. There will be continued emphasis on vocabulary building. All linguistic skills acquired in elementary French will be maintained and advanced. Reading of carefully graded texts will continue. Motion pictures and interactive multi-media will reinforce the culture lessons of France and the French speaking world. Skills of comprehension, conversation, reading, and writing will be maintained and further developed.

WL211 Honors French II

Prerequisite: WL112, application

This intermediate French class is for the more able student. A review of the basic structures, which were developed in the first year of French, will constitute the first weeks of work. There will be continued emphasis on vocabulary building. All linguistic skills acquired in elementary French will be maintained and advanced. The accelerated student will move more quickly through the grammar concepts, leaving more time for conversation and discussion of selected readings. Motion pictures and interactive multi-media will reinforce the culture lessons of France and the French speaking world.

WL312 French III

Prerequisite: WL211/WL212

This course is designed for the student who wishes to continue the study of French due to an interest in conversation, current events, or simply to review grammar. Emphasis is placed on developing proficiency in understanding the spoken language and in the use of vocabulary and grammar. Culture of France and the French speaking world will be emphasized.

WL311 Honors French III

Prerequisite: WL211/212, application

This course is designed for the student who wishes to continue the study of French due to an interest in conversation, current events, or simply to review grammar. Emphasis is placed on developing proficiency in understanding the spoken language and in the use of vocabulary and grammar. The accelerated student will have more time for conversation and discussion of current issues. Culture of France and the French speaking world will be emphasized.

WL411 Honors French IV

Prerequisite: WL311/312, application

Selected excerpts from the classics of French literature from the earliest beginnings to the 19th century will be read and analyzed. Conversation will be emphasized. Oral reports will be given about various aspects of French culture. Students will write on literary themes and genres studied in class. In addition, the development of music, art, and science in France and the Francophile world will be studied as contributions to the progress of the world and the enjoyment of life.

WL410 AP French

Prerequisite: WL411, application

Une Fois Pour Toutes is the primary textbook. It acts as a complete review for all essential grammatical structures introduced in previous years. Class time is devoted to discussing literature (the predominant novel is *Le Petit Prince*), and writing various types of compositions based on actual AP topics from previous years, in an effort to perfect student speaking and writing skills. Language skills are further refined through classroom discussions, oral presentations, and interaction between students and between students and the instructor. By writing and speaking on a wide range of topics, students expand their vocabulary, fine-tune writing skills in French, and improve critical thinking skills - all in the target language. The use of English in the classroom is not permitted.

Listening skills continue to be developed by classroom interaction between students and between student and teacher. Champs-Elysees, as well as CDs depicting sample discussions from previous AP tests assure exposure to native speakers. Student-created recordings, critiqued by the instructor, assure assessment and perfection of student speaking skills. A summer reading project, which includes a poem by a famous French poet and an excerpt from *Le Petit Prince*, launches the class into the scholastic year. The project changes yearly.

WL511 Honors French V

Prerequisite: WL411, application

The French V curriculum is rooted in the use of media, its content and importance in the French culture. And the exploration and understanding of elements that are inherent to understanding the French Culture such as: geography, travel, weather, currency and leisure activities. The students will be able to read and reply in simple sentences to questions regarding all of these topics. In addition, they will fulfill their advanced culture requirement by responding to the above questions through reading/viewing a modern French video (French Kiss or equivalent) and express the personal impressions/likes/dislikes. Students will read and discuss excerpts from Le Petit Prince (St. - Exupery) reader.

WL122 German I

This introductory course focuses on the fundamentals of German pronunciation, basic vocabulary and language structures. The goal is to develop a firm foundation for understanding, speaking, reading, and writing German at the most basic level.

WL222 German II

Prerequisite: WL122

This is a course in intermediate German. The course starts with a review of the basic structures which were developed in German I. The building of adequate conversational vocabulary is continuously emphasized. Linguistic skills acquired in elementary German are maintained and further expanded. Reading of selected texts is continued. Movies, slides, and interactive exercises help develop basic knowledge about German culture.

WL221 Honors German II

Prerequisite: WL122; application

This intermediate German is for the more able student. The course starts with a review of the basic structures which were developed in the first year of study of the language. Building of adequate conversational vocabulary receives continued emphasis. All the linguistic skills acquired in elementary German are maintained and advanced. The accelerated student will move more quickly through the grammar concepts, leaving more time for conversation and discussion of selected readings. Motion pictures, slides, and filmstrips will reinforce the culture lessons.

WL322 German III

Prerequisite: WL221/WL222, recommended to have a grade of B or higher

This course is designed to expand vocabulary which were learned in German I and German II courses. Advanced grammatical structures are introduced and used in various contexts. German III course continues to develop and reinforce the four foundational language skills: listening, speaking, reading, and writing. Emphasis is placed on the development of students' conversational skills and fluency in speaking both of which are necessary to communicate effectively. Topics include German cuisine, sports, hobbies, health, communication, traveling and young generation.

WL 321 Honors German III

Prerequisite: WL221/WL222; application

This course is designed to expand vocabulary which were learned in German I and German II courses. New, more advanced grammatical structures are introduced and used in various contexts. German III course continues to develop and reinforce the four foundational language skills: listening, speaking, reading, and writing. Emphasis is placed on the development of students' conversational skills and fluency in speaking both of which are necessary to communicate effectively. Topics include German cuisine, sports, hobbies, health, communication, traveling and young generation. Students complete advanced projects related to a variety of topics.

WL421 Honors German IV (Project Acceleration available)

Prerequisite: WL321/WL322; application

This course is designed to teach students about aspects of everyday life, origins and development of German culture and society. It is the first course in the sequence when students become familiar with German literature. This course helps develop various reading strategies and encourages students to appreciate literature. Short stories, poems, excerpts of the following authors will be read: Erich Kastner, Michel Ende, Christian Morgenstern, Johann Wolfgang von Goethe and other. Students learn how to express their own opinions or develop their own arguments and justifications for their beliefs and attitudes. This course continues to expand students' knowledge about Germany, Switzerland and Austria.

WL521 Honors German V

Prerequisite: WL421, application

This course gives students an opportunity to improve listening, reading, speaking and writing as well as reinforce grammar and vocabulary through the authentic materials in target language and German literature related to major historical and contemporary topics. Previously studied grammatical structures are reviewed, new structures are introduced. Topics include: Peace and war, Technology, Politeness and Etiquette, Life from a different perspective, Climate and environment.

Current newspaper/magazine articles will be read and studied as well. This course includes audio activities. German V introduces German writers and their work: A. Mechtel, B. Honigmann, Grimm Brothers, J. Bobrowski, B. Brecht and others.

WL420 AP German

Prerequisites: WL321/W322; application

The Advanced Placement course in German is an extensive review and refinement of previously learned grammar and vocabulary, in addition to instructional content reflecting a variety of topics such as leisure time activities, family relationships, music, environment, communication, Germany in the 21st Century, the world of work, a multicultural society, young and old, and stereotypes. Short contemporary literature, film, poetry, current newspaper/magazine articles, other non-technical writings in addition to the textbook will also be studied. All lectures, readings, discussions, written work, presentations and note-taking in the target language will perfect students' pronunciation and communication skills. The course provides students with regular opportunities to develop and improve speaking and listening skills through the use of audio and workbook activities, as well. Students will practice for the AP German test through extensive practice in organizing thoughts in order to speak on tapes, write compositions and take timed practice AP tests.

ENGLISH AS A SECOND LANGUAGE (ESL)

ESL101/105-201/205-301/305-401

English as a Second Language is a four-level course that addresses the needs of students who come from other countries and whose native language is not English. Each course corresponds to a language proficiency level: Entering, Beginning, Developing and Expanding/Bridging. Students in the first three proficiency levels take two ESL classes. Students in the advanced proficiency level, take one. Students are placed in the appropriate course after their English proficiency level has been identified. At each level, English language learners are instructed in the four language domains (listening, speaking, reading, and writing) with the goal of teaching them the social and academic language needed to succeed in school. In addition to language skills, this course aims to foster multicultural awareness in a diverse student population.

Courses Eligible to Meet the Visual/Performing Arts Graduation Requirements

AR213 General Art
AR201 Drawing: Basic Drawing, Still Life & Landscape
AR215 Advanced Drawing
AR202 Painting I
AR210 Advanced Painting
AR204 Photography
AR209 Photography II
AR409 Advanced Placement Photography
AR205 Art History
AR206 Advanced Visual Arts Studio
AR206A AP Advanced Visual Arts Studio
AR211 Ceramics & Sculpture
AR311 Advanced Ceramics
AR214 Fashion/Design
AR220 Digital Arts I
AR230 Digital Arts II
AR330 Digital Arts III
AR430 Digital Arts IV
MU115/215/315/415 Jazz Ensemble
MU120/220/320/420 Wind Ensemble
MU125/225/325/425 Concert Band
MU135/235/335 Music Theory
MU435 AP Music Theory
MU145/245/345/445 Musical Theater
MU155/255/355/455 Orchestra
MU165/265/365/465 Concert Chorus
MU175/275/375/475 Show Choir
MU285/385/485 Advanced Musical Theater

Courses Eligible to Meet the Career/Technical Education Graduation Requirements

CA244S Exploring Social and Digital Media
CA301 TV Production I
CA344 TV Production III
CA401 TV Production II
CA444/CA444A TV Production IV
HE210 Clothing I
HE310 Clothing II
HE320 Clothing III
HE340 Clothing IV
HO310 Allied Health I
HO410 Allied Health II
IE230 Graphic Design/Commercial Art I
IE340 Graphic Design/Commercial Art II
IE420 Graphic Design/Commercial Art III
IE520 Graphic Design/Commercial Art IV
IE250 Introduction to Woodworking
IE360 Woodworking II - Advanced Machine Woodworking
IE560 Woodworking IV - Carpentry & Construction
IR460 Woodworking III - Woodworking for the Craftsman
TE100 Technical Education I
TE200 Technical Education II
TE150 CAD I Drafting and Design
TE250 CAD II Drafting and Design
TE350 CAD III Drafting and Design
TE450/TE450A CAD IV 3D Modeling and Rendering
TE550: Introduction to Drone Theory & Design
VT334 Cosmetology I
VT444 Cosmetology II
BE150 Supply Chain Management I
BE250 Supply Chain Management II
BE160 College Accounting
BE175 Marketing Education
BE210S Business Professional
BE235 Computer Applications I
BE260 Advanced College Accounting II
BE275 Fashion Marketing
BE390S Criminal Justice
BE395 Business Management
BE335 Computer Applications II and Publishing

BE380 Sports and Entertainment Marketing
BE385S Business Law
BE475 Hospitality and Tourism Marketing Management
BE490S Business Ethics
BE535 Honors Corporate Internship
BE485S Public Relations
BE480/485 Cooperative Marketing Education/Work Experience
SC150 Introduction to Engineering Design
SC250 Principals of Engineering