

ART DEPARTMENT

ADVANCED ART 5 CREDITS
Prerequisite: Introduction to Art or department approval; Grades 10-12 Full Year

The course explores in greater depth the principles of design offered in the introductory year. Projects in sculpture and still life drawing are added to the requirements. (Performing Art)

ADVANCED PLACEMENT ART HISTORY 5 CREDITS
Prerequisite: Grades 11-12; must achieve a proficient score on standardized tests in Language and Writing Skills; B in English; department approval Full Year

The A.P. offering in Art History provides the student with an understanding and enjoyment of painting, sculpture, architecture and other art forms within historical and cultural contexts. Students will examine major forms of artistic expression from the past and present from a variety of cultures. They will learn to look at works of art critically, with intelligence and sensitivity. They will also be able to analyze what they see. (Performing Art)

ART WORKSHOP 5 CREDITS (Single period)
10 CREDITS (Double period)
Prerequisite: B in Advanced Art or permission of department supervisor Full Year

This course is designed for students talented in a variety of art media. The workshop provides for individual development and experimentation in a choice of different media. The student interested in further art training will find the course ideal for portfolio preparation. (Performing Art)

CREATIVE CRAFTS 2.5 CREDITS
Prerequisite: None One Semester
The course will cover yarn design, mosaics, copper embossing, paper marbling, latch hook rugs, dream catchers, plaster sculpture, collage, graphic design, and related projects. Included will be instruction in the techniques of each area. Students will be able to work in one or all areas of study. The emphasis of the course will be placed on individual goals and achievements. (Performing Art)

DIGITAL PHOTOGRAPHY 2.5 CREDITS
Prerequisite: Grades 11-12 One Semester
In this semester course, students begin by learning general photographic concepts. Composition skills are then added to photographs, and image-editing is practiced. Students will learn how to use layers, crop images, color and lighting concepts, hue and saturation, and exposures and special effects. Graphic design, artistic elements, and software skills are taught while producing graphic images. The concept of design as a manner of visual communication is carried on throughout the course. Students are expected to build a

portfolio of work and explore the fields of photography, graphic arts, advertising, and illustration. (Performing/Practical Art)

FASHION ILLUSTRATION 2.5 CREDITS
Prerequisite: Introduction to Art One Semester
This course teaches students to understand, analyze and draw a fashion figure from different views. Students learn how to communicate their design ideas in fashion sketches through garment details, silhouettes and color theory. They will gain skills in design development and sketching to create unique fashion designs. (Performing Art)

GRAPHIC ART 2.5 CREDITS
Prerequisite: None One Semester
This course will introduce students to the basic aspects used by graphic artists. Students will design and produce brochures, posters, programs, tickets, awards, business cards, tee shirts, signs, logos, and other pieces. Emphasis will be placed on vocational opportunities. (Performing/Practical Art)

INTRODUCTION TO ART 2.5 CREDITS
Prerequisite: None One Semester
The course explores the principles and elements of design through a variety of techniques that include: watercolor, tempera, sketching, enlarging, pen and ink, block printing and other two-dimensional forms of expression. The course is recommended for any student interested in taking ADVANCED ART or ART WORKSHOP at a later time. (Performing Art)

JEWELRY AND METAL WORKING 1 2.5 CREDITS
Prerequisite: Grades 11-12 given preference One Semester
This introductory class gives students the basic techniques of metalworking/jewelry making. Most of these techniques involve piercing, sawing, riveting, forming and soldering. Projects may include key chains, pendants and rings. (Performing Art)

JEWELRY AND METAL WORKING 2 2.5 CREDITS
Prerequisite: B in Jewelry 1 or department approval; Grades 11-12 given preference One Semester
This is an advanced level class for students who have completed Jewelry 1. At this level, students will be expected to design and create projects utilizing previously learned techniques as well as incorporating newly introduced ones such as stone setting and repousse. (Performing Art)

SCULPTURE AND CERAMICS 1 2.5 CREDITS
Prerequisite: Grades 11-12 given preference One Semester
This course is designed to help students develop practical and technical knowledge in hand-formed ceramics (no mold work). Various forming processes, including pinch coil and slab, will be experienced along with strong emphasis on textural and glazed decoration. (Performing Art)

SCULPTURE AND CERAMICS 2 2.5 CREDITS
Prerequisite: B in Sculpture and Ceramics 1; Grades 11-12 given preference One Semester

This course is designed for Ceramics 1 students who wish to continue further development and experimentation in hand-formed ceramics. Advanced wheel methods plus more complex sculptural work are stressed. (Performing Art)

STAINED GLASS 2.5 CREDITS
Prerequisite: Grades 11-12; permission of department supervisor One Semester

Stained Glass will be open to advanced art students who have taken other art courses in the department. The course will cover the two major styles of stained glass construction, namely, Tiffany style and lead cane construction. The class will also cover glass cutting, copper foil wrapping (Tiffany style), lead cane wrapping, and soldering which are all basic stained glass skills. Students will be encouraged to design their own patterns and create original glass art. (Performing Art)

BUSINESS DEPARTMENT

ALL PLACEMENT CRITERIA LISTED BELOW IS AS OF THE DATE/TIME OF REGISTRATION.

BUSINESS ORGANIZATION AND MANAGEMENT 2.5 CREDITS
Prerequisite: None One Semester

This is an introductory course to the business classes. Students are given an understanding of the principles of business organization. Some of the areas included are money and banking, insurance, budgeting, the consumer movement, government and industry. Internet projects will be infused into the curriculum. (Practical Art)

CAREER DEVELOPMENT 2.5 CREDITS
Prerequisite: None One Semester

Basic information will be presented to the student. The course is designed to develop self-awareness of one's interests and aptitudes as well as to strengthen decision-making skills. Students are made aware of the extensive amount of material on careers via fifteen occupational clusters, as defined by the United States Office of Education, and will be taught how to find and use the information. The Career Development course will allow students to explore the many careers available to them and to begin the process of discovering a path to a future career. Internet research will be incorporated in the process. (Practical Art)

ESSENTIALS OF MARKETING 2.5 CREDITS
Prerequisite: None One Semester

Essentials of Marketing is taught on a career-sustaining level which will prepare students for marketing occupations involving complex duties, using routine decision-making

skills, and having limited control of one's own working environment. Individuals in a career-sustaining level job should have a basic understanding of the marketing concept and its foundations. Students should have an interest in marketing and related fields as a potential career. Students are expected to participate in the student organization, DECA. (Practical Art)

ENTREPRENEURSHIP & SMALL BUSINESS MANAGEMENT 5 CREDITS

Prerequisite: 2.5 credits in Business Courses Full Year
Students will gain an understanding of the need for entrepreneurship and the role of small business in the U.S. economy. They will learn what it takes to become an entrepreneur, how to create and expand a small business while developing social and ethical responsibility. Students are expected to participate in the student organization, DECA. (Practical Art)

INTRODUCTION TO ACCOUNTING 5 CREDITS
Prerequisite: Grades 10-12 Full Year

The following basic accounting principles and procedures for operating small businesses will be studied: debits and credits, recording business transactions, and financial reports in relation to a sole proprietorship. Simulation practice sets will be used. Students will learn to integrate computerized spreadsheets into the accounting records using Microsoft Excel, a widely used spreadsheet program in the Windows environment. Also, students will explore career and higher educational opportunities in the fields of accounting and business management. This course is highly recommended not only for business students but also for college preparatory students who are planning careers in accounting or business administration. (Practical Art)

FINANCIAL ACCOUNTING HONORS 5 CREDITS
Prerequisite: B in Algebra 2 Full Year

Financial Accounting Honors uses a college-level textbook and is taught at an accelerated pace. It is an introductory course for students who plan to continue their education in the area of accounting or business administration. Students will study the nature and significance of accounting through recording and summarizing business transactions as related to a sole proprietorship, partnership and corporation. Topics to be covered include the preparation of financial statements, adjusting, closing and reversing entries, inventory evaluation, fixed assets and depreciation, and analyzing the activities in the management and decision-making process. Students will incorporate computer assignments utilizing Microsoft Excel. The importance of accounting records in the management and decision-making process will be stressed during the course. (Practical Art)

MANAGERIAL ACCOUNTING HONORS 5 Credits
Prerequisite: Financial Accounting Honors Full Year

An introduction to the use of accounting information by managers. Topics include the use of accounting information for planning and control, performance evaluation, decision-making, and the statement of cash flows, along with financial statement analysis. (Practical Art)

COOPERATIVE WORK EXPERIENCE SEMINAR

Prerequisite: **Must have taken at least 15 CREDITS**
2.5 credits in Business Full Year
Courses. Grade 12 only.
Prior to senior year
students must complete 90
credits; must have passed
all sections of
Standardized Testing
Requirements. Students
will apply to the Co Op
Business Coordinator for
approval.

This is a cooperative program between school and the business community. Cooperative Work Experience is the phase of the marketing program that prepares students for entry-level employment in management, merchandising and service occupations. The course covers many phases of business, utilizing a competency-based, hands-on approach to learning. After completing this course, students are ready to obtain beginning positions in business and advance to supervisory levels in their chosen occupations. Students are expected to demonstrate competency through successful participation in the cooperative education program. Students are also encouraged to participate in the student organization, DECA or FBLA. Besides classroom lessons, a minimum of 540 hours of outside school-supervised work is required. (Practical Art)

COOPERATIVE WORK EXPERIENCE SEMINAR

Prerequisite: **Must have taken at least 10 CREDITS**
2.5 credits in Business Full Year
Courses. Grade 12 only.
Prior to senior year
students must complete
90 credits; must have
passed all sections of
Standardized Testing
Requirements. Students
will apply to the Co Op
Business Coordinator for
approval.

This is a cooperative program between school and the business community. Cooperative Work Experience is the phase of the marketing program that prepares students for entry-level employment in management, merchandising and service occupations. The course covers many phases of business, utilizing a competency-based, hands-on approach to learning. After completing this course, students are ready to obtain beginning positions in business and advance to supervisory levels in their chosen occupations. Students are expected to demonstrate competency through successful participation in the cooperative education program. Students are also encouraged to participate in the student organizations, DECA or FBLA. Besides classroom lessons, a minimum of 270 hours of outside school-supervised work is required. (Practical Art)

MICROSOFT OFFICE SUITE

5 CREDITS

Prerequisite: **None**

Full Year

Students will learn to use the various programs in Microsoft Office at a fast pace. The course will focus on the more advanced applications in the Microsoft Office Suite. Students will be taught the basics of Word, Excel, PowerPoint, and Access and will be given projects to develop their skills. They will learn to utilize merges, macros, and advanced editing in Word. Students will be able to incorporate additional formulas, advanced graphics, and macros into their spreadsheets. Integration of Word and Excel will be emphasized and students will create relational databases with Microsoft Access. The course will also focus on Microsoft PowerPoint. PowerPoint will allow students to prepare top-quality presentations for professional looking reports, slides, overheads, and handouts. The course will give the college-bound student an advantage when preparing reports, graphic designs, projects, and activities for college. The Internet will be utilized for tutorials and graphics. (Practical Art)

SPORTS AND ENTERTAINMENT MARKETING

Prerequisite: **Grades 11-12 and 2.5** 2.5 CREDITS
credits in Business One Semester
Courses

The Sports and Entertainment Marketing course is designed for students who are interested in studying the entertainment industry. Students will learn the basic functions of marketing and how those functions are applied to sports and other entertainment events. Basic market functions such as financing, pricing, promotion products, distribution, and selling will be explored. Students will learn the strategies used by successful sports and entertainment marketing firms who represent various products and will investigate websites for team merchandise and celebrity fan clubs. Students will become acquainted with people who have succeeded in sports and entertainment and marketing careers. Legal and ethical issues surrounding the sports and entertainment industries will be examined. Interesting facts and statistics about sports teams and entertainers will be discussed. (Practical Art)

COMPUTER SCIENCES

**ALL PLACEMENT CRITERIA LISTED BELOW IS AS
OF THE DATE/TIME OF REGISTRATION.**

COMPUTER NETWORKING AND DESIGN

Prerequisite: **Algebra 1 (Upperclassmen** 5 CREDITS
given preference) Full Year

PC Hardware and Software v4.0 covers the fundamentals of computer hardware and software as well as advanced concepts. Students who complete this course will be able to describe the internal components of a computer, assemble a computer system, install an operating system, and troubleshoot using system tools and diagnostic software. Students will also be able to connect to the Internet and share resources in a network environment. New topics included in this version include laptops and portable devices, wireless connectivity,

security, safety and environmental issues, and communication skills. Hands-on lab activities will continue to be an essential element of the course. In support of this, virtual learning tools are integrated into this course. The Virtual Laptop and Virtual Desktop are stand-alone tools designed to supplement classroom learning and provide an interactive “hands-on” experience in learning environments with limited physical equipment. (Practical Art)

TRENDS IN COMPUTER SCIENCE - HTML

Prerequisite: Completion of Intro to Computer Science 2.5 CREDITS One Semester

Trends in Computer Science is a semester course in computer programming, and will focus on the design and construction of Internet web pages. Students will be introduced to html programming language and use web page editing software such as Microsoft FrontPage and Macromedia Dreamweaver MX. All students will have hands-on experience creating and publishing their own web pages. They will build a sample web site, incorporating graphics, text, tables, buttons, and interactivity. Students will learn how to create and modify graphics in an image editor and vector drawing program, for use on their web pages in Dreamweaver. (Practical Art)

ADVANCED CONCEPTS IN COMPUTER PROGRAMMING

Prerequisite: Completion of Intro to Computer Science 2.5 CREDITS One Semester

In Advanced Concepts, a semester course in computer programming, students will gain an understanding of the strategies and techniques used in advanced languages such as C++ and Java. They will learn to understand and use object-oriented programming algorithms with appropriate data structures to solve problems. Topics such as object-oriented programming, algorithms, static and dynamic data structures, sequence, repetition, conditions, methods, one-and two-dimensional arrays, and recursion will be presented. Lessons will focus on classes and objects, methods, inheritance, loops, decisions, polymorphism; a graphics unit will involve drawing, images, loops, timers, decisions, and animation; a user interface unit will cover components, events, data-types, decisions, console I/O, and loops; and data storage and processing will incorporate arrays and files, searching, sorting, and string parsing. Includes thorough coverage of the AP Computer Science Syllabus that aligns with the testing standards. (Practical Art)

INTRODUCTION TO COMPUTER SCIENCE

Prerequisite: Algebra 1 2.5 CREDITS One Semester

Introduction to Computer Science is a semester course in which students will be introduced to the universal concepts essential to all programming languages. Through the use of basic programming environments such as Scratch and Alice students will create 2D and 3D animations incorporating these key concepts. Students will design and code graphical interfaces through both guided and independent practice. By moving through the program development cycle of: problem analysis, pre-planning design, coding, testing, debugging, and documenting a program; students will focus on developing thinking and problem solving skills. This course will act as

the gateway course to all the other computer science/programming courses. (Practical Art)

GAME DESIGN AND APP DEVELOPMENT

Prerequisite: Completion of Intro to Computer Science 2.5 CREDITS One Semester

Game Design and App Development is a semester course in which students will be introduced to the basic elements of game design and app development. Students will use programming environments to create interactive 2D games and cell phone applications. Students will learn the importance of storytelling and planning when developing both games and apps. Students will learn the skill necessary to work in teams as they move through the program development cycle of problem analysis, pre-planning design, user interface design, coding, testing, debugging and documenting an application. (Practical Art)

FAMILY AND CONSUMER SCIENCES DEPARTMENT

FOODS AND NUTRITION 1 2.5 CREDITS

Prerequisite: Grade 12 One Semester

This is an introductory course designed to familiarize students with the ease and enjoyment of preparing basic nutritious foods. General nutrition, table setting, and etiquette will be studied. Quick breads, cookies, yeast breads, pies and cakes will be covered in this course during the laboratory periods. (Practical Art)

FOODS AND NUTRITION 2 2.5 CREDITS

Prerequisite: Foods & Nutrition 1 or teacher recommendation One Semester

Continuation of Foods and Nutrition 1. (Practical Art)

GOURMET COOKING 2.5 CREDITS

Prerequisite: Foods & Nutrition 1 and/or teacher recommendation One Semester

The preparation of special foods using unusual utensils will be the highlight of this class. Students who wish to pursue a career in the food preparation field should consider registering for this course. (Practical Art)

PARENTING AND CHILD DEVELOPMENT

Prerequisite: Grades 10-12 2.5 CREDITS One Semester

This course is for those students who are interested in teaching or caring for children, those interested in being parents someday, and those interested in child-related occupations. The role of the family with both its rewards and responsibilities will be included. The four areas of child development: physical, emotional, social and cognitive will

be covered from infancy through childhood. (Practical Art)

LANGUAGE ARTS DEPARTMENT

ENGLISH 9 HONORS

5 CREDITS

Prerequisite: B in LAL 801 or A in LAL 802, teacher recommendation, score on entrance essay Full Year

English 9 Honors provides the highly motivated student with an intensive study of literary forms, along with an emphasis on the skills of vocabulary development, grammar and essay writing. Course reading requirements will be enhanced by a large variety of works representing the literary genres, including poetry, the novel, the short story, and drama. A wide range of essay writing assignments, including a research paper, will be given in which critical thinking skills will be emphasized. Outside readings and analyses of selected books will be required throughout the year. The completion of an honors summer reading assignment is required.

ENGLISH 9 CP

5 CREDITS

Prerequisite: Passing grade in LAL 8 and/or teacher recommendation Full Year

English 9 CP is a course designed to prepare students for the study and analysis of various texts at the high school level and beyond. The structure is thematic with an overall focus on negotiating the human experience, self-discovery, and living a multi-faceted existence. Each unit concentrates on a different aspect of the overall theme, while drawing attention to the many internal/external elements that influence the individual consciousness and underscore the commonality of the human experience. In addition, all literary genres are represented during this course and are interwoven throughout each unit, including but not limited to: the novel (classic, contemporary, and multi-cultural), drama, poetry, and non-fiction essays, articles, interviews, etc. Through the practice of close reading and text-rooted analysis, students will surpass traditional examinations of plot and literary elements to focus on the meaning within and across literary works. Furthermore, the study and analysis of the arts – including paintings, drawings and music – enhances the texts; thus affording our students’ exposure to various mediums of storytelling in addition to prose and poetry. Finally, writing instruction is an integral part of the course of study and therefore students will create several types of writing (narrative, argumentative, informational and creative) encompassing a range of topics and styles, compiled in a portfolio.

ENGLISH 9

5 CREDITS

Prerequisite: C or below in ASI; and/or teacher recommendation Full Year

English 9 is a course designed to prepare students for the study and analysis of various texts at the high school level and provides more time for students to master the skills and concepts in the course. The structure is thematic with an overall focus on negotiating the human experience, self-

discovery, and living a multi-faceted existence. In addition, all literary genres are represented during this course and are interwoven throughout each unit, including but not limited to: the novel (classic, contemporary and multicultural), drama, poetry, and non-fiction essays, articles, interviews, etc. Instruction at this level is designed to focus on teacher-led close readings and an introduction to text-rooted analysis. Students will learn strategies for studying the texts beyond the traditional examinations of plot and literary elements. Through text analysis, students will learn how to identify distinct writing styles in the works read, as well as how to begin developing their own writing, initiating a move away from “formulaic” writing. Furthermore, the students will also be introduced to methods for finding meaning in different types of works including paintings, drawings and music, and then drawing connections to the texts through an understanding of characterization, symbolism, plot development and narrative style. Finally, writing instruction is an integral part of the course of study and therefore students will create several types of writing (narrative, argumentative, informational, and creative) encompassing a range of topics and styles, compiled in a portfolio. Strategies for organizing ideas, explaining analysis and developing an individual style will be a focus.

READING 9

5 CREDITS

Prerequisite: Placement in English 9 and/or teacher recommendation Full Year

This course is designed to meet the needs of students who have yet to achieve proficiency in one or more basic reading skills. The course provides direct instruction in recognizing patterns of organization such as cause and effect; in developing strategies to construct meaning from fiction and non-fiction text; in identifying main idea, characterization, setting, plot, theme, and author’s purpose; in extending vocabulary; and in responding to open-ended questions on text. The course also promotes lifelong habits of reading and thinking through its SSR (sustained silent reading) component. Students are provided a wide variety of materials, and along with their instructor, students read for pleasure for a sustained period of time at least three times a week. Students may participate in book talks or other follow up SSR discussions.

ENGLISH 10 HONORS

5 CREDITS

Prerequisite: B in English 9 Honors or A in English 9 CP, teacher recommendation, score on entrance essay Full Year

English 10 Honors is a continuation of English 9 Honors. English 10 Honors provides the highly motivated student with an intensive study of literary forms, along with an emphasis on the skills of vocabulary development, grammar and essay writing. Course reading requirements will be enhanced by a large variety of works representing the literary genres, including poetry, the novel, the short story, and drama. A wide range of essay writing assignments, including a research paper, will be given in which critical thinking skills will be emphasized. Outside readings and analyses of selected books will be required throughout the year. The completion of an honors summer reading assignment is required.

ENGLISH 10 CP

5 CREDITS

Prerequisite: **Passing grade in English 9 CP, Full Year and/or teacher recommendation**

English 10 CP is designed to continue the development of students' analytical reading and writing skills, heightening their awareness of structure and patterns in literature. The units and accompanying activities are designed to guide students in their identification, examination and analysis of various literary elements while teaching them how to construct written responses that accurately and efficiently convey their new understandings. Students begin the year by acquiring new strategies for close reading and eventually learning how to combine these strategies to gain depth of comprehension. As the year progresses, students will employ their close reading skills as they begin to recognize and analyze patterns and common structures in the individual works before expanding their skills to draw connections between several works. Students will ultimately consider the impact that patterns and structure from early literature have had on contemporary works, examining classic selections such as Shakespearean texts and Ancient Greek texts, and then drawing connections to contemporary novels and even graphic novels. The writing assignments require students to convey their thoughts and conclusions clearly and efficiently while effectively employing textual evidence in support of their claims. The assignments will guide students in learning how to identify strong evidence, employ it correctly and efficiently in their writing, and edit and revise by closely examining their own writing to gain intensity and purpose. These skills apply to all types of writing in which the students will engage: expository, informational and narrative. Finally, each unit includes a research component to strengthen student awareness of and efficiency with both print and digital resources, giving them opportunities to synthesize research and gather support for their analyses while providing them with valuable 21st century skills. Completion of the 10th grade summer reading is required.

ENGLISH 10

5 CREDITS

Prerequisite: **C or below in English 9 and/or teacher recommendation**

English 10 is designed to continue the development of students' analytical reading and writing skills and provide more time for students to master the skills and concepts in the course. The units and accompanying activities are designed to guide students in their identification, examination and analysis of various literary elements while teaching them how to construct written responses that accurately and efficiently convey their new understandings. Students begin the year by acquiring new strategies for close reading and comprehension. As the year progresses, students will employ their close reading skills as they begin to recognize and analyze individual works before expanding their skills to draw connections between several works. Students will be examining classic selections such as Shakespearean texts and Ancient Greek texts and then drawing connections to contemporary novels and even graphic novels. The writing assignments require students to convey their thoughts and conclusions clearly and efficiently while effectively

employing textual evidence in support of their claims. The assignments will guide students in learning how to identify strong evidence, employ it correctly and efficiently in their writing and edit and revise by examining their own writing closely to gain intensity and purpose. These skills apply to all types of writing in which the students will engage: expository, informational and narrative. Finally, each unit includes a research component to strengthen student awareness of and efficiency with both print and digital resources, giving them opportunities to synthesize research and gather support for their analyses while providing them with valuable 21st century skills. Completion of the 10th grade summer reading is required.

READING 10

5 CREDITS

Prerequisite: **Placement in English 10 and/or teacher recommendation**

This course is designed to meet the needs of students who continue to experience difficulties with one or more basic reading skills. The course continues to provide direct instruction in recognizing patterns of organization such as cause and effect; in developing strategies to construct meaning from fiction and non-fiction text; in identifying main idea, characterization, setting, plot, theme, and author's purpose; in extending vocabulary; and in responding to open-ended questions on text. The course also promotes lifelong habits of reading and thinking through its SSR (sustained silent reading) component. Students are provided a wide variety of materials, and along with their instructor, students read for pleasure for a sustained period of time at least three times a week. Students may participate in book talks or other follow up SSR discussions.

ENGLISH 11 HONORS

5 CREDITS

Prerequisite: **B in English 10 Honors or A in English 10 CP, teacher recommendation, score on entrance essay**

English 11 Honors is a continuation of English 10 Honors. English 11 Honors provides independent, self-motivated students with an intensive study of literary forms, vocabulary development, and expository writing. Students will delve into themes of the American experience through the reading of novels, drama, the short story, and poetry. Expository writing assignments will be extended to focus on literary theories in application to literature. Additionally, students will be expected to complete a literary criticism paper using research. A strong focus will be placed on critical thinking skills through the reading of texts independently. The completion of an honors summer reading assignment is required.

ADVANCED PLACEMENT ENGLISH 1

5 CREDITS

Prerequisite: **A in English 10 Honors, teacher recommendation, score on entrance essay**

Our course of study in AP English Language and Composition cultivates the reading and writing skills that students need for college success and for intellectually responsible civic engagement. The course guides students in becoming curious,

critical and responsive readers of diverse texts, and becoming flexible, reflective writers of texts addressed to diverse audiences for diverse purposes. The reading and writing students do in the course should deepen and expand their understanding of how written language functions rhetorically: to communicate writers' intentions and elicit readers' responses in particular situations. The course cultivates the rhetorical understanding and use of written language by directing students' attention to writer/reader interactions in their reading and writing of various formal and informal genres (e.g., memos, letters, advertisements, political satires, personal narratives, scientific arguments, cultural critiques, research reports). Reading and writing activities in the course also deepen students' knowledge and control of formal conventions of written language (e.g., vocabulary, diction, syntax, spelling, punctuation, paragraphing and genre). The course helps students understand that formal conventions of the English language in its many written and spoken dialects are historically, culturally and socially produced; that the use of these conventions may intentionally or unintentionally contribute to the effectiveness or ineffectiveness of a piece of writing in a particular rhetorical context; and that a particular set of language conventions defines Standard Written English, the preferred dialect for academic discourse. (College Board 2014) The completion of an A.P. summer reading assignment is required.

**The national A.P. English exam is held in May of each year; students enrolled in A.P. 1 are strongly encouraged to take this exam in order to receive college credit for the course and/or to qualify for advanced placement standing.*

ENGLISH 11 CP 5 CREDITS
Prerequisite: **Passing grade in English 10 CP and/or teacher recommendation** Full Year

English 11 CP is designed to continue preparing students for the study and analysis of various texts beyond the high school level. The structure is thematic with an overall concentration on how individuals function in the face of social adversity. This course allows for a deeper study of texts and requires students to apply literary criticism; has vertical alignment to two previous years of Language Arts curriculum as well as horizontal alignment to US History 1 & 2; therefore, fostering significant opportunities for synthesis and continued discourse on various social issues. Through the continued practice of close reading and text-rooted analysis, students will renew their focus on analysis and development of a distinct writing style. In addition, all literary genres are represented during this course and are interwoven throughout each unit, including but not limited to: the novel (classic, contemporary and multicultural), drama, poetry and non-fiction essays, articles, interviews, etc. Furthermore, the study and analysis of the arts – including paintings, drawings and music – enhances the texts; thus affording our students' exposure to various mediums of storytelling in addition to prose and poetry. Finally, writing instruction is an integral part of the course of study and therefore students will create several types of writing (narrative, argumentative, informational and creative) encompassing a range of topics and styles, with an emphasis

on synthesizing formal academic research. Completion of the 11th grade summer reading assignment is required.

ENGLISH 11 5 CREDITS
Prerequisite: **C or below in English 10 and/ or teacher recommendation** Full Year

English 11 is designed to continue preparing students for the study and analysis of various texts and to provide more time for students to master the skills and concepts in the course. The structure is thematic with an overall concentration on how individuals function in the face of social adversity. This course allows for a deeper study of texts; has vertical alignment to two previous years of Language Arts curriculum as well as horizontal alignment to US History 1 & 2; therefore, fostering significant opportunities for synthesis and continued discourse on various social issues. Through the continued practice of close reading and text-rooted analysis, students will renew their focus on analysis and development of a distinct writing style. In addition, all literary genres are represented during this course and are interwoven throughout each unit, including but not limited to: the novel (classic, contemporary and multicultural), drama, poetry and non-fiction essays, articles, interviews, etc. Furthermore, the study and analysis of the arts – including paintings, drawings and music – enhances the texts; thus affording our students' exposure to various mediums of storytelling in addition to prose and poetry. Finally, writing instruction is an integral part of the course of study and therefore students will create several types of writing (narrative, argumentative, informational and creative) encompassing a range of topics and styles, with an emphasis on synthesizing formal academic research. Completion of the 11th grade summer reading assignment is required.

READING 11 5 CREDITS
Prerequisite: **Placement in English 11 and/or teacher recommendation** Full Year

This course is designed to meet the needs of students who continue to experience difficulties with one or more basic reading skills. The course continues to provide direct instruction in recognizing patterns of organization such as comparing and contrasting; in developing strategies to construct meaning from fiction and non-fiction text; in identifying main idea, characterization, setting, plot, theme, and author's purpose; in extending vocabulary; and in responding to constructed prose response items including: narrative task, literary analysis task and the research simulation task. Students receive intensive instruction and practice with test-taking strategies that increase success on the PARCC. The course also promotes lifelong habits of reading and thinking through its SSR (sustained silent reading) component. Students are provided a wide variety of materials, and along with their instructor, students read for pleasure for a sustained period of time at least three times a week. Students may participate in book talks or other follow up SSR discussions.

ADVANCED PLACEMENT ENGLISH 2 5 CREDITS

Prerequisite: B in AP English 1, A in English 11 Honors, teacher recommendation, score on entrance essay Full Year

Our course of study in AP Literature and Composition is designed to develop students' skills in the following areas: close reading analysis; recognition, identification and understanding of figurative language, imagery, symbolism and allusions as literary devices which enhance meaning; authorial style; genre recognition and understanding; identifying and drawing connections from text to text; recognition of an author's autobiographical influence on his/her works; writing literary analysis; and the development of AP-level writing that is efficient in depth of analysis and organization and structure. The course exposes the student to multiple genres, styles and time periods in literature, sharpening their awareness of the interconnected nature of literature in terms of influence and evolution of the arts. Additionally, the course includes the review of study prep materials for successful completion of the AP English Literature and Composition exam in the spring from previously released exams and additional study aids, focusing on passage and poetry analysis and communication of those analyses through writing. The completion of the A.P. English II summer reading assignment is required.

**The national A.P. English exam is held in May of each year; students enrolled in A.P. 2 are strongly encouraged to take this exam in order to receive college credit for the course and/or to qualify for advanced placement standing.*

ENGLISH 12 HONORS 5 CREDITS

Prerequisite: B in English 11 Honors or A in English 11 CP, teacher recommendation, score on entrance essay Full Year

English 12 Honors is a writing intensive course for highly motivated English students. Through a variety of writing projects requiring description, narration, illustration, process analysis, comparison and contrast, definition, classification, literary analysis and a documented essay, students develop competence in writing clear, correct, effective English prose. Extensive reading materials, mostly non-fiction prose but with a few works of fiction, serve as models and as the basis for writing essays. During the course, students will write short papers, submitting drafts and revisions, and a research paper is a requirement. **This course is being offered in conjunction with Middlesex County College. If you choose to obtain college credits for this course, you will be required to pay a nominal fee to the college for obtaining these credits.** The completion of an honors summer reading assignment is a requirement of this course.

ENGLISH 12 CP 5 CREDITS

Prerequisite: Passing grade in English 11CP, and/or teacher recommendation Full Year

English 12 CP is designed to provide students with comprehensive writing skills instruction, vocabulary

development and a strong background in British literature as well as the literature of various cultures. Students will continue to refine listening and speaking skills and to become more sophisticated in their understanding and application of non-textual information. Students study the novel, drama, poetry and other works of literature and non-fiction in order to identify main ideas, supportive details, patterns of organization, and author's purpose and style. Writing activities include opportunities for students to react to literature, to conduct research, and to think about their ideas and feelings and the events and people in their lives. Students learn strategies to assist them in writing clearly and in crafting their texts with appropriate conventions of spelling, grammar, and punctuation as they revise, edit, and publish. Completion of the 12th grade summer reading assignment is required.

ENGLISH 12 5 CREDITS

Prerequisite: C or below in English 11 and/or teacher recommendation Full Year

This course provides intensive instruction in the continued development of basic reading comprehension and composition skills, including organization, coherence, support, proper usage and mechanics skills. Students study the novel, drama, poetry and other works of literature and non-fiction in order to critically examine main ideas, supportive details, patterns of organization and author's purpose and style. Writing activities include opportunities for students to react to literature, to conduct research and to think about their ideas and feelings and the events and people in their lives. Completion of the 12th grade summer reading assignment is required.

READING 12 5 CREDITS

Prerequisite: Placement in English 12 and/or teacher recommendation Full Year

The course is designed to meet the needs of students who have not demonstrated proficiency on a graduation requirement for Language Arts. This course provides intensive instruction in reading and writing particularly in developing strategies to construct meaning from fiction and non-fiction text; in identifying main idea, characterization, setting, plot, theme and author's purpose; in extending vocabulary; as well as in responding to text dependent, constructed response topics.

ENGLISH LANGUAGE LEARNERS 5 CREDITS

Prerequisite: Language assessment to determine appropriate ELL level Full Year (unless otherwise determined)

Beginning ELL

Beginning ELL introduces students to basic structures and vocabulary of the English language. Class activities are designed to develop basic communication skills. These basic skills include: listening, speaking, reading, writing, pronunciation, vocabulary and linguistic skills through a content-based and multi-cultural curriculum. Students work towards expanding oral comprehensibility and writing complete sentences as well as standard paragraphs.

Intermediate ELL

Intermediate ELL continues to develop students' understanding of structures and vocabulary of the English

language. Class activities are designed to develop more grade appropriate communication skills. These advancing skills include: listening, speaking reading, writing, pronunciation, vocabulary and linguistic skills through a content-based and multi-cultural curriculum. Students work towards expanding oral comprehensibility and writing complete sentences, standard paragraphs and essays.

Advanced ELL

Advanced ELL introduces students to complex structures and grade level content specific vocabulary of the English language. Class activities are designed to develop grade appropriate communication skills. These advancing skills include: listening, speaking, reading, writing, pronunciation, vocabulary and linguistic skills through a content-based and multi-cultural curriculum. Students work towards meeting all grade level requirements to be considered fluent in all content area classes.

CHILDREN'S LITERATURE

2.5 CREDITS

Prerequisite: None

One Semester

This course will explore a variety of children's literature through various genres. These genres include contemporary novels, classic novels, historical fiction, realistic fiction, and picture books, as well as folk and fairy tales. Children's Literature will explore these various genres on a variety of levels. The course aims to give a sense of the "breath" of children's literature as well as the opportunity to explore some in depth both critically and creatively.

COMMUNICATION ARTS THROUGH TELEVISION 1

Prerequisite: None

2.5 CREDITS

One Semester

This course is designed to introduce students to the field of television and to provide them with the opportunity to develop skills in the communications arts of the medium. The technical aspect of the program offers extensive studio experience including hands-on activities involving television productions. The communications strand of the program introduces students to the world of advertising, basic elements of television, journalism, script writing, PSA commercial, news, etc. (Performing/Practical Art)

COMMUNICATION ARTS THROUGH TELEVISION 2

Prerequisite: B in TV 1 or teacher recommendation

2.5 CREDITS

One Semester

Communication Arts Through Television 2 is the second year of a program designed to provide students with the opportunity to develop skills in the field of television communication. Both technical hands-on studio experience as well as varied forms of communication will be the focus of the course. Students will participate in producing a news magazine program that is broadcast throughout the high school, learn E.N.G., editing and create music videos. (Performing/Practical Art)

COMMUNICATION ARTS THROUGH TELEVISION 3

Prerequisite: B in TV 2 or teacher recommendation

5 CREDITS

Full Year

Communication Arts Through Television 3 is the third year

course of a program that develops job skills in the field of television and film/video production. Through hands-on studio experiences, students will produce on-going productions that highlight student achievements, school events, and other important matters. Students will learn the many aspects of audio/video production. Job responsibilities will include the following: camera operation, location and studio sound, scriptwriting, show direction and production, floor management, computer editing, and on-camera presentation. Shows produced will use all digital equipment including video cameras and computers. This course builds student job skills as they pertain to television production, advertising, television journalism, and scriptwriting. Those enrolled in this course will take on leadership roles in the student run news program. (Performing/Practical Art)

COMMUNICATION ARTS THROUGH TELEVISION 4

Prerequisite: B in TV 3 or teacher recommendation

5 CREDITS

Full Year

Communication Arts Through Television 4 is the fourth course of a program that will help to further hone students' skills in all aspects of television production. Through hands-on studio experiences, students will continue to produce on-going productions that highlight student achievements, school events and other important matters. Students will learn the many aspects of audio/video production including scriptwriting, directing, chroma key, editing, production management and development, storytelling, documentaries, short movies, news packages, dramas, etc. as they take on greater responsibility for more complex projects. This course is part of the high school's overall plan to provide more rigorous electives that fall within the college and career readiness initiative. (Performing/Practical Art)

CREATIVE WRITING

2.5 CREDITS

Prerequisite: Grades 10-12

One Semester

Creative Writing focuses on writing as a craft and studying a variety of famous authors and genres. Students will produce their own writing samples and evaluate his/her own written work. Throughout the course, students will study major works of poetry, fiction and creative non-fiction and playwriting. Students will complete a variety of different tasks such as free-writes, a poetry portfolio of original work, a work of fiction and a memoir, all while working together in a workshop atmosphere.

DYNAMICS OF COMMUNICATION

2.5 CREDITS

Prerequisite: Grades 10-12

One Semester

Dynamics of Communication is a course where students will have regular practice developing speeches within an authentic context. The course will explore topic selection, audience analysis, speech preparation and speech delivery. In-class activities will develop and enhance students' ability to effectively communicate in one-on-one situations and provide them with the knowledge and experience to speak confidently in public or in small groups. The course addresses the NJCC requirements for Language Arts Literacy standard 3.3.

JOURNALISM

Prerequisite: Grades 10-12;
B in English

2.5 CREDITS
One Semester

Journalism is a course designed to introduce the student to the fundamentals of journalistic writing, as well as to the basic skills involved in publishing a newspaper. The emphasis in the class is on clear, concise written expression.

MONSTERS IN LITERATURE

Prerequisite: None

2.5 CREDITS
One Semester

Vampires, werewolves, Frankenstein! Why have characters such as these fascinated readers for generations? In this course, students will explore the theme of good versus evil and see how various authors have translated this idea into complex and exciting literary “monsters” in classic and contemporary literature. Students also will read, analyze, discuss and respond in writing to non-fictional articles and essays on these characters as well as on the topic of the dual nature of humanity.

MYSTERIES – DETECTIVES IN LITERATURE AND FILM

Prerequisite: Grades 10-12

2.5 CREDITS
One Semester

Designed to provide students with interesting juxtapositions in the mystery and detective genre. The curriculum will cover various detective types including the brilliant detective, the hard-boiled, reluctant, and bumbling detective. In addition, the course will cover female detectives and the effect of gender on the nature of the mystery/crime and on the method of detection. Students will compare and contrast famous detective pairs. Reading, viewing, class/small group discussion and analysis are integral to the Mysteries course. Students will learn strategies for focused viewing, and they will collaborate to prepare multi-media presentations.

MYTHOLOGY

Prerequisite: Grades 10-12

2.5 CREDITS
One Semester

Mythology takes students throughout the world as they study the ancient stories of gods and heroes. Students will read and research different myths from a variety of different cultures and analyze the impact of these stories on tradition, literature and society. Through reading, listening, viewing and responding through creative projects, students gain an appreciation of mythology that will enrich further study of art, music, literature, religion and science.

PREPARING FOR THE SAT

Prerequisite: Grades 10-12

2.5 CREDITS
One Semester

This course is a half-year elective designed to provide students with a view of the type of verbal and mathematical questions they will encounter on the SAT exam. A comprehensive review of the essentials of vocabulary, reading comprehension, essay writing and grammatical revision will be stressed along with relevant topics in algebra and geometry. Class time will be spent equally in both areas with instruction provided by both a language arts and mathematics teacher.

WRITING SUCCESS

Prerequisite: None

2.5 CREDITS
One Semester

This course will help students develop and hone their writing

skills. They will participate in all modes of writing to prepare them for college and the workplace, including expository, response to text, research, persuasive, etc. The mechanics as well as the creativity of writing will be addressed through various activities in class, at home and through the use of media such as blogging. Writing and the use of social media, awareness of audience and voice will also be explored.

THEATRE 1

Prerequisite: None

5 CREDITS

Full Year

Students are introduced to the fundamentals of play production, stage terminology, acting terminology, structure of drama and varieties of drama, through textual reading and class discussion. This introduction provides students with enough understanding of dramatics to enable them to evaluate critically what they read and view. The major emphasis in the classroom is on the actual experience of basic acting techniques. This is accomplished through theatre games and improvisational exercises and, later, preliminary instruction and exercises in stage speech. (Performing Arts)

THEATRE 2

Prerequisite: Theatre 1

5 CREDITS

Full Year

This course is a continuation of Theatre 1. The intent of this course is to widen the student’s theatrical scope. Introduction to character analysis, development, and the experience of “new theatre” exercises, provide students with opportunities to become more polished performers. Reading and classroom discussion of the history of drama, stage setting, stage lighting, costuming, and makeup enable students to be more knowledgeable in related areas. (Performing Arts)

THEATRE WORKSHOP

Prerequisite: Theatre 2

5 CREDITS

Full Year

Theatre Workshop is offered to students who have successfully completed Theatre 1 and Theatre 2. Advanced theatre students are offered a great deal of choice and independent study. They are given opportunities to develop characterizations through script and theme analysis and to act as directors of complete stage productions. (Performing Arts)

MATHEMATICS DEPARTMENT

ALL PLACEMENT CRITERIA LISTED BELOW IS AS OF THE DATE/TIME OF REGISTRATION. To be eligible to take two math classes concurrently students must meet the criteria for both courses. Students wishing to double up in math should see the supervisor for a waiver. Students wishing to take an AP course must complete an AP Course application. Waivers will not be entertained for AP courses.

ADVANCED PLACEMENT CALCULUS AB

Prerequisite: A- in Pre-Calculus **OR** B in Pre-Calculus Honors; B- or higher on Pre-Calculus

5 CREDITS
Full Year

**Quarterly Assessments;
teacher recommendation;
completed AP Mathematics
application**

This is a college level course in differential and integral calculus. The course work will help prepare students to follow careers in engineering, physics, mathematics, and to a lesser extent, other science fields. Students should be knowledgeable in Algebra, Plane and Analytic Geometry, and Pre-Calculus before they elect to take AP Calculus.

ADVANCED PLACEMENT CALCULUS BC

Prerequisite: B+ or higher in Pre-Calculus Honors; B- or higher on Pre-Calculus Honors Quarterly Assessments; teacher recommendation; completed AP Mathematics application 5 CREDITS Full Year

Calculus BC is an extension of Calculus AB rather than an enhancement; common topics require a similar depth of understanding. The course is intended to be challenging and demanding. Broad concepts and widely applicable methods are emphasized. The focus of the course is neither manipulation nor memorization of an extensive taxonomy of functions, curves, theorems or problem types. Thus, although facility with manipulation and computational competence are important outcomes, they are not the core of the course. Technology will be used regularly by students and teachers to reinforce the relationships among the multiple representations of functions, to confirm written work, to implement experimentation, and to assist in interpreting results. Through the use of the unifying themes of derivatives, integrals, limits, approximation and applications and modeling, the course becomes a cohesive whole rather than a collection of unrelated topics. These themes are developed using all the functions listed in the prerequisites.

ADVANCED PLACEMENT STATISTICS 5 CREDITS

Prerequisite: A- in Algebra 2 CP OR B in Algebra 2 Honors; B or higher on Algebra 2 Quarterly Assessments; teacher recommendation; completed AP Mathematics application Full Year

The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes:

- Exploring Data: Describing patterns and departures from patterns
- Sampling and Experimentation: Planning and conducting a study
- Anticipating Patterns: Exploring random phenomena using probability and simulation
- Statistical Inference: Estimating population parameters and testing hypotheses

Students who successfully complete the course and

examination may receive credit and/or advanced placement for a one-semester introductory college statistics course.

ALGEBRA 1-9 CP 5 CREDITS

Prerequisite: Completion of Algebra 1A Full Year
This course is also known as Algebra 1B. Students will continue their study of the elementary concepts of Algebra. The second half of the Algebra 1 curriculum will be covered with students having completed the first half of the curriculum the previous year in Algebra 1A. Students will gain an understanding of the concepts of number and space with an emphasis on the application of mathematics through a study of word problems.

ALGEBRA 1-9 5 CREDITS

Prerequisite: Grade 8 placement Full Year
This is a full year Algebra 1 course. This course will introduce students to the elementary concepts of Algebra. The student will gain an understanding of the concepts of number and space. The application of mathematics through a study of word problems is emphasized.

ALGEBRA 2 5 CREDITS

Prerequisite: Plane Geometry Full Year
This course is a continuation of Algebra 1. Students will be introduced to more advanced concepts of algebra and will increase their understanding of the concepts of numbers and space. Applications of mathematics through a study of word problems are discussed at various times throughout the course.

FUNDAMENTALS OF COLLEGE ALGEBRA 5 CREDITS

Prerequisite: This course is only open to students in Grade 12; successful completion of Geometry. Full Year

This course is designed to strengthen the algebraic skills of students. There will be a focus on the applications of the mathematical concepts and problem solving. Students who take this class will reinforce mathematic concepts and gain skills that will help them on college entrance exams and prepare them for higher level mathematics. This course is being offered in conjunction with Middlesex County College. If you choose to obtain 4 college credits for this course, you will be required to pay a fee (approximately \$155) to the college for obtaining these credits.

ALGEBRA 2 HONORS 5 CREDITS

Prerequisite: A- in Algebra 1 and Geometry OR B+ in Geometry Honors; B or higher on Geometry Quarterly Assessments; teacher recommendation Full Year

This course is a fast-paced extension of Algebra 1, with very limited review of Algebra 1 key concepts. Students will use more advanced concepts of algebra and will solidify their understanding of the concepts of numbers and space. Applications of mathematics through a study of word problems are emphasized many times throughout the course. Assignments will include more challenging problems than in

the non-honors course. Students will be introduced to logarithmic and exponential equations, conic sections, trigonometry, and trigonometric functions. The use of graphing calculators will be emphasized and mandatory.

ALGEBRA 3 AND TRIGONOMETRY 5 CREDITS

Prerequisite: C- or better in Algebra 2 Full Year

This elective course is designed for students who, while interested in mathematics, have no desire or need for the standard course in Pre-Calculus. The material covered will include some topics from Algebra, factors, determinants, synthetic division, as well as topics from Trigonometry, functions, conic sections.

CALCULUS 5 CREDITS

Prerequisite: C in Pre-Calculus and teacher recommendation is required Full Year

This course is a foundation course in Differential and Integral Calculus. The course will prepare students who are planning to take a college course in Calculus to have a basic understanding of the concepts included which will help them to achieve competency when enrolled at the college level. This course will emphasize the practical applications of the Calculus. **This course is being offered in conjunction with Middlesex County College. If you choose to obtain 4 college credits for this course, you will be required to pay a fee (approx \$155) to the college for obtaining these credits.**

MATH 104: ALGEBRA LAB 5 CREDITS

Prerequisite: Current enrollment in Algebra 1-9 or Algebra 1-9 CP Full Year

This course is designed to be a supplemental course to the Algebra 1 program. Topics from Algebra 1 will be covered with an emphasis on problem solving. Students will receive an intensive review of the basic skills in preparation of the state mandated PARCC Assessment.

MATH 204: GEOMETRY LAB 5 CREDITS

Prerequisite: Current enrollment in Plane Geometry; standardized test scores or district criteria Full Year

This course is designed to be a supplemental course to the Plane Geometry program. Topics from Plane Geometry will be covered with an emphasis on problem solving. Students will receive an intensive review of the basic skills in preparation of the state mandated PARCC Assessment.

MATH 404 A (Fall) 2.5 CREDITS

MATH 404 B (Spring) 2.5 CREDITS

Prerequisite: Standardized test scores

Students are not permitted to elect these courses. They are designed for those students who have been identified by state mandated tests and have not attained a graduation test requirement as defined by the New Jersey Department of Education. These courses will emphasize and reinforce the five clusters of mathematics identified in the Common Core Standards for Mathematics. Every student will be involved in experiences addressing all of these expectations of each of the four content clusters. Every student will also be presented with open-ended questions that will explore their problem

solving strategies and they must be able to communicate their solutions in written form.

PLANE GEOMETRY 5 CREDITS

Prerequisite: Algebra 1 Full Year

This course includes an introduction to basic geometric concepts and an in-depth study and classification of lines, triangles, other polygons and circles. The ideas of proof, including emphasis on congruence and similarity, are stressed.

PLANE GEOMETRY HONORS 5 CREDITS

Prerequisite: B in Algebra 1 Honors OR A- in Algebra 1-9 CP; B or higher on Quarterly Assessments; teacher recommendation Full Year

This course begins with an introduction to basic geometric concepts and an in-depth study and classification of lines, triangles, other polygons and circles. The ideas of proof, including emphasis on congruence and similarity, are stressed. In addition, students will explore concepts related to three dimensional figures. Students will complete more extensive units on the surface area and volume of prisms, cylinders, pyramids and cones. They will study the concepts of congruence and similarity of solids and will examine equations relating to statistics and geometric models of motion. This course is pending Board approval.

PRE-CALCULUS 5 CREDITS

Prerequisite: B- in Algebra 2 CP OR successful completion of Algebra 3/Trigonometry; teacher recommendation Full Year

In this course, students will gain an understanding of the properties of the trigonometric functions and their applications. In addition, students will gain an understanding of Algebra in the solution and classification of the concepts of functions and the conic sections. There will be a review of the fundamentals of Algebra and Geometry which are necessary for understanding the concepts of Trigonometry and Pre-Calculus.

PRE-CALCULUS HONORS 5 CREDITS

Prerequisite: A- in Algebra 2 CP OR B in Algebra 2 Honors; B- on the Algebra 2 Quarterly Assessment, teacher recommendation Full Year

In this course, students will gain an understanding of the properties of the trigonometric functions and their applications. In addition, students will gain an understanding of Algebra in the solution and classification of the concepts of functions and the conic sections. There will be a review of the fundamentals of Algebra and Geometry which are necessary for understanding the concepts of Trigonometry and Pre-Calculus. In addition, students will expand their study of limits to include trigonometry functions, investigate vectors and sequences, and examine polar coordinates and parametric equations. A summer project on Algebra review is to be completed prior to the beginning of school.

PREPARING FOR THE SAT 2.5 CREDITS
Prerequisite: Grades 10-12 One Semester
Please see PREPARING FOR THE SAT in the Language Arts Department section.

PROBABILITY AND MATRIX ALGEBRA HONORS
Prerequisite: B- in Algebra 5 CREDITS
3/Trigonometry OR C in Full Year
Pre-Calculus; teacher recommendation

This course will introduce the student to a study of the laws of chance. The student will study certain elementary probability models and will deal with problems involving chance regularities and fluctuations. Students will study the relationship of the probability models to the real world.

Matrix Algebra is a study of an algebraic structure similar to that studied by the student in Elementary Algebra. Students preparing for work in almost every field will find a study of Probability and Matrix Algebra useful to them.

MUSIC DEPARTMENT

BAND 2.5 CREDITS/One Semester
5 CREDITS/Full Year

Prerequisite: Instrumental Proficiency
Band is for students with previous instrumental experience and approval of instructor. Students are expected to perform at various performances throughout the school year. (Performing Art)

BAND (ADVANCED) 5 CREDITS
Prerequisite: Instrumental Proficiency; Full Year
Grades 9-12

This group is comprised of the most advanced woodwind, brass and percussion players in the high school. Repertoire performed will include masterworks of the wind band literature. In addition to the winter and spring concerts, these students will attend several evening competitions in the spring semester. This class is open to students in Grades 9-12. **Band-lunch is not an option for this class.** (Performing Art)

MIXED CHOIR 101 2.5 CREDITS/One Semester
Prerequisite: None 5 CREDITS/Full Year
Mixed Chorus is geared toward the beginning ensemble singer. Each vocalist will develop basic skills in musical literacy and music theory. Musical selections are of all styles. Most music is performed in three or more parts (soprano, alto, baritone – depending upon enrollment). Each student must participate in at least one after-school rehearsal and an evening performance per semester. (Performing Art)

MIXED CHOIR 201 2.5 CREDITS/One Semester
Prerequisite: Mixed Choir 101 5 CREDITS/Full Year
or audition

Students who are experienced in choral singing will be accepted into the Concert Choir with the approval of the

choral director. Emphasis will be placed on improving vocal technique, sight reading skills and other music fundamentals to an intermediate level. Most music will be performed in 4 or more parts (soprano, alto, tenor, bass – depending upon enrollment). A wide variety of musical genres will be explored. Each student must participate in at least one after-school rehearsal and an evening performance per semester. (Performing Art)

RECORDING AND ENTERTAINMENT PRODUCTION
Prerequisite: Grades 10-12; cumulative 5 CREDITS
average of B; interview Full Year
with teacher

Recording and Entertainment Production is a cross-curricular course designed to introduce students to the different aspects of music/entertainment business and record production. Through real-life experiences, provided by a mock record and entertainment company (Fedora Productions), it will provide the student with hands-on opportunities and deeper insight into the different careers available in the music and entertainment industry, as well as increasing student awareness regarding intellectual-property rights. The course will utilize student talents in the areas of: Human Resource Management, Accounting/Finance, Artist and Repertoire Development, Legal Issues, Marketing, Graphic Design, Audio Engineering, Music Technology and more. Students need not be musicians to participate in the course. (Performing/Practical Art)

MUSIC TECHNOLOGY 1 2.5 CREDITS
Prerequisite: Interview with instructor; One Semester
Basic Music Theory Exam

This course is an introduction to music computer software and synthesizer MIDI systems. These systems allow students to enter music without the ability to play an instrument. Afterwards the music can be played back, arranged or recorded. After students become proficient with the software, they will begin to apply skills to composing, arranging, and recording pre-existing and original music. Keyboard skills are a plus but not necessary to be successful. (Performing/Practical Art)

MUSIC TECHNOLOGY 2 2.5 CREDITS
Prerequisite: Music Technology 1 One Semester

This is a course designed for advanced music computer users. Students will arrange pre-existing music, participate in special cross-curricular projects (Theatre, Film, Chorus, Band, etc.), as well as individual projects (solo compositions, arrangements, etc.). Students will be trained in the use and sound reinforcement equipment (microphones, speakers, amplifiers, mixing) and introduced to basic recording techniques. The course will feature a performance of music created during the class. (Performing/Practical Art)

MIXED CHOIR 301 2.5 CREDITS/One Semester
Prerequisite: Mixed Choir 201 5 CREDITS/Full Year
or audition

Only students who have demonstrated a high talent/dedication level will be accepted into this course. Emphasis will be placed on advanced vocal technique, sight reading skills and

other music skills. Independent singing will be strongly encouraged, usually in small groups (octets, quartets, duets, etc.) An advanced choral repertoire will be developed. Each student must participate in at least one after-school rehearsal and an evening performance per semester. (Performing Art)

MIXED CHOIR 401 2.5 CREDITS/One Semester

Prerequisite: **Audition** 5 CREDITS/Full Year

This course is designed for the student interested in developing skills as a soloist or small group specialist. Each student will learn techniques designed to improve vocal production as well as musicality. Repertoire will include but not be limited to the following genres: Broadway, Jazz, Swing, Pop, Classical, and Folk. Students will utilize state-of-the-art computer, video and audio equipment to analyze performances, record musical performance, create CD accompaniments and much more. Each student must participate in all after school choral events. (Performing Art)

PHYSICAL EDUCATION DEPARTMENT

PLEASE NOTE:

The format for Health and Physical Education requires students to pass the following:

- two (2) semester courses of Health (Health 1S and 2S) **and**
- six (6) semester courses of Physical Education (PE1S, PE2S, PE3S, PE4S, PE5S, and PE6S),
Basic Fitness and Advanced Fitness

Note: "S" signifies a semester course in the titles of the revised Health and Physical Education courses.

PHYSICAL EDUCATION 2 or 2.5 CREDITS

Prerequisite: **None** One Semester

The Physical Education program consists of a combination of activity, instruction, and testing with the emphasis placed on participation. A wide variety of activities are taught, ranging from team and individual sports to co-educational dance.

HEALTH 1S 2 or 2.5 CREDITS

Prerequisite: **None** One Semester

One marking period of the course spans the male and female reproductive anatomy, pregnancy, the birth process, sexually transmitted disease, alcohol, tobacco, drugs and nutrition. One marking period of the course covers material necessary to pass the New Jersey State Driver's Examination. Additional content includes the function of the automobile, highway safety, and local driving situations.

HEALTH 2S 2 or 2.5 CREDITS

Prerequisite: **Health 1S** One Semester

The Family Living portion aims to provide an understanding of personality development and mental health. The second portion of the course covers a wide range of health related

topics designed to help the high school student plan his/her lifestyle after leaving home and family.

BASIC CPR, FIRST AID AND INJURY MANAGEMENT

Prerequisite: **B- in Physical Education,** 2.5 CREDITS
Grades 11-12 One Semester

This course is offered as an elective semester course to junior and senior students who have a minimum grade of 80% or better. It will provide students with a CPR and First Aid Certification, as well as a basic understanding of prevention, evaluation, and care of sports related injuries. This class will include, but not be limited to, activity and practical classroom sessions. It is offered in addition to the regular Physical Education and Health curriculum. (Practical Art)

BASIC FITNESS 2.5 CREDITS

Prerequisite: **B- in Physical Education** One Semester
Grades 11-12

This course is designed to introduce students to the benefits of daily fitness and well-being. It will expose students to strength training, cardiovascular fitness, flexibility and agility routines, and nutritional balance. Students will work at a pace and level suitable to their individual needs, monitoring and evaluating their progress through the course.

ADVANCED FITNESS 2.5 CREDITS

Prerequisite: **Completion of Basic Fitness; Grades 11-12** One Semester

This course is designed for the serious fitness advocate who is looking to improve his/her fitness workout to more technical levels. Students will develop individual workout routines, explore new and innovative methods of physical development, and challenge themselves in all areas of fitness to meet individual needs and goals.

SCIENCE DEPARTMENT

All science courses include laboratory experiences.

To be eligible to enroll in two 6.0 credit lab sciences, students must have a semester average of A in their current Science, Math and LAL courses. Additionally they must have a grade of A on their current math and science course quarterly exams. Recommendations by teachers for students who would like to take two 6.0 credit lab sciences will be made based on satisfying the prerequisites for both courses through the supervisor. Waivers will not be entertained for AP Biology, AP Chemistry, AP Environmental Science or AP Physics.

ADVANCED PLACEMENT BIOLOGY 6 CREDITS

Prerequisite: Semester 1 average of A in Full Year
current Math or LAL courses;
B in Biology Honors OR A in Biology CP; taking or completed Chemistry CP (6)

**or higher; completed AP
Science application**

Advanced Placement Biology is a college level course that is taught at a fast pace. Students taking this course should be responsible and committed to spending extensive time and effort in study. Some topics require independent study. The course is designed to prepare students for the AP exam and uses the College Board AP Biology syllabus for topics and laboratories. Additional activities and laboratories may be included to enrich the course. Students are required to do independent research and oral presentations. Some of the areas covered are Biochemistry, Cytology, Evolution and Genetics, Plant Physiology and Anatomy, Mammalian Anatomy, and Ecology. An independent study project will be completed in the summer prior to the course. Students are encouraged to take the AP examination.

ADVANCED PLACEMENT CHEMISTRY 6 CREDITS

Prerequisite: B in Chemistry Honors OR A in Chemistry CP (6); Semester 1 average of A or higher in current LAL course; B in Algebra 2 CP or higher; completed AP Science application Full Year

Advanced Placement Chemistry is designed for the student who has a strong ability in science and mathematics and who has exhibited an interest in acquiring an in-depth knowledge of chemistry. The course offers the student the in-depth scientific background needed to pursue a career in science. An independent study project will be completed in the summer prior to the course. Students are encouraged to take the AP Chemistry examination.

ADVANCED PLACEMENT ENVIRONMENTAL SCIENCE 5 CREDITS

Prerequisite: B in Biology Honors OR A in Biology CP(6); B in Chemistry Honors OR A in Chemistry CP(6); B in Algebra 2 CP or higher; completed AP Science application Full Year

The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them.

ADVANCED PLACEMENT PHYSICS 6 CREDITS

Prerequisite: A in Physics; B in Algebra 2 CP or higher; concurrent enrollment in Pre-Calculus or higher; completed AP Science application Full Year

This course follows an Advanced Placement curriculum specifically designed to be a college-like course that follows successful completion of CP Physics. The course covers all traditional fields of physics including mechanics, waves,

sound, light, optics, electricity and magnetism. This is a mathematically rigorous study of Physics where students will need an understanding of Algebra and Trigonometry to succeed in this course. It is anticipated that students will take the AP Physics Level B examination in May. An independent study project will be completed in the summer prior to the course.

ASTRONOMY 2.5 CREDITS

Prerequisite: C in Biology or Environmental Science; Grades 11-12 One Semester

Astronomy is a course designed to give students an awareness of one's efforts to understand the universe. Students will learn how one's understanding of the heavens has changed with the advance of space technology. Hands-on activities will be an integral part of the course.

BIOLOGY HONORS 6 CREDITS

Prerequisite: Semester 1 average of A- in General Science CP and LAL courses; Quarterly Assessment grades of A- or higher in current science course; teacher recommendation; concurrent enrollment in Geometry Honors or higher Full Year

This lab course is designed for students who have a strong interest in science and the motivation to work hard throughout the school year. Biology Honors includes a more intensive investigation of the Biology CP course topics and is presented at a faster pace. In addition to the course concepts and laboratory work, emphasis will be on higher level thinking skills, writing assignments, oral reports and projects. The curriculum emphasizes topics in molecular biology that include biochemistry, ecology, cytology, genetics, taxonomy and evolution. The weekly two-period lab class focuses on the development of laboratory skills and problem solving through experimentation and student-centered, hands-on activities. All students in New Jersey who are enrolled in a first year biology course are required to take the End of Course Biology Test.

BIOLOGY CP 6 CREDITS

Prerequisite: B- in General Science; B- in current LAL course; teacher recommendation; concurrent enrollment in Geometry Full Year

College Preparatory Biology lab course is designed to offer students a wide scope of experiences in Biological Science. The curriculum emphasizes topics in Molecular Biology that include Biochemistry, Ecology, Cytology, Genetics, Taxonomy and Evolution. The weekly two-period lab class focuses on the development of laboratory skills and problem solving through experimentation and student-centered, hands-on activities. All students in New Jersey who are enrolled in a first-year Biology course are required to take the End of Course Biology Test. This course contains some dissections*.

BIOLOGY CP

5 CREDITS

Prerequisite: Students not meeting requirements for Biology CP (6) will be placed in Biology CP (5)

Full Year

The Biology lab course is designed primarily for students who have difficulty with math and science. The course will offer a sequence of laboratory experiences that will parallel topics discussed in class. The Biology course will cover the same major topics that are presented in CP Biology, but with appropriately less rigor in terms of detail and amount of additional topics covered. All students in New Jersey who are enrolled in a first year Biology course are required to take the End of Course Biology Test.

CHEMISTRY HONORS

6 CREDITS

Prerequisite: A- or higher in Biology Honors; Quarterly Assessment grade of A- or higher in current science course; B in Geometry Honors OR A in Plane Geometry; teacher recommendation; concurrent enrollment or completion of Algebra 2 CP or higher

Full Year

Chemistry Honors is designed for students who have a strong interest in science and the motivation to work hard throughout the school year. Chemistry Honors includes a more intensive investigation of the Chemistry CP course topics and is presented at a faster pace. In addition to the course concepts and laboratory work, emphasis will be on higher level thinking skills, writing assignments, oral reports and projects. The curriculum emphasizes topics in inorganic chemistry, including atomic structure, chemical bonding, stoichiometry, acids and bases, and gas laws. The weekly two-period lab class focuses on the development of laboratory skills and problem-solving through experimentation and student-centered, hands-on activities. In addition to the numerous laboratory experiences there is an emphasis on problem-solving, physical and mathematical modeling, research methods and experimental techniques. Success in this course requires students to have a strong foundation in algebra.

CHEMISTRY CP

6 CREDITS

Prerequisite: B- in Biology CP (6) OR A- in Biology (5); B- in current Math course; teacher recommendation; recommended concurrent enrollment in Algebra 2

Full Year

College Preparatory Chemistry provides students the opportunity to acquire a solid foundation of chemical principles and concepts. The year is devoted to topics in inorganic chemistry, including a foundation based on formula writing, the balancing of equations, stoichiometry, acids and bases, and gas laws. In conjunction with the course content, a laboratory sequence is offered. This sequence parallels the text and affords the opportunity to experience first-hand not only the analyses and problem solving discussed in class, but also the chemical techniques associated with the course. The

weekly two-period lab class focuses on the development of laboratory skills and problem solving through experimentation and student-centered, hands-on activities. Success in this course requires students to have a foundation in Algebra.

CHEMISTRY CP

5 CREDITS

Prerequisite: Completion of Algebra 1 and Biology

Full Year

The Chemistry course is designed primarily for students who have difficulty with math and science. The course will offer a sequence of laboratory experiences that will parallel topics discussed in class. The Chemistry course will cover the same major topics that are presented in Chemistry CP (6 credits), but with appropriately less rigor in terms of detail and mathematical emphasis.

ENVIRONMENTAL SCIENCE

2.5 CREDITS

Prerequisite: Grades 11-12; successful completion of Biology

One Semester

Environmental Science is a lab science which acquaints the students with the earth: its structure, its resources and man's impact on its sustainability. The geology component of the course includes the investigations of the geological timetable, plate tectonics, land and water formations, earthquakes and volcanoes, among other topics. The ecological component includes population, conservation and environmental health. The unit on weather includes meteorology and climatology.

FOOD SCIENCE

2.5 CREDITS

Prerequisite: Grades 11-12

One Semester

Semester lab elective that incorporates nutrition, food processing techniques and procedures. Includes the applications of the science concepts and principles such as chemical reactions, physical and chemical properties of food, role of food preservatives, polymer denaturation and food spoilage. Career awareness and planning for success in the food industry/research development/FDA/Hospitality industry.

FORENSIC SCIENCE

2.5 CREDITS

Prerequisite: B in Biology CP or higher

One Semester

Forensic Science is a lab science elective in which students study and use scientific concepts and technologies related to the investigation of a crime. In this course, students will apply the techniques that professionals use to identify and collect evidence, analyze and compare it, and use the results to locate criminal perpetrators. The course will take you from the crime scene to the laboratory to the courtroom. It should be noted that many criminal acts are, by their very nature, violent. This course is not designed to specifically focus on crimes of a graphic or sexual nature; however, in an effort to provide an accurate and realistic perspective, certain aspects of such behaviors may be unavoidable. In this course you'll learn the step by step procedures for analyzing hair, fiber, fingerprints, chemicals, and blood stains; testing for drugs and alcohol; examining DNA samples; and much more. You'll also learn how to use specialized forensic equipment, reconstruct a crime scene, and prepare a lab report for presentation in court.

GENERAL SCIENCE CP 5 CREDITS

Prerequisite: C in Grade 8 science Full Year

This inquiry based course offers a foundation in the physical sciences of chemistry, physics and earth science. It includes the study of measurement and motion, the properties of and changes in matter, and the relationships between energy and matter. Students perform laboratory activities relative to course work. The course emphasizes the everyday applications of physical laws and relates technological advances to basic physical science. This course will be appropriately rigorous in its coverage of science and mathematics and is geared toward those students having an interest in science and a desire to continue exploration in the sciences.

GENERAL SCIENCE 5 CREDITS

Prerequisite: Completion of Grade 8 Science Full Year

General Science is an inquiry based course designed primarily for students who have difficulty with math and science. The General Science course will cover the same major topics that are presented in General Science CP, but with appropriately less rigor in terms of detail and amount of additional topics covered. Laboratory work is often performed by the entire class, closely following a textbook.

HUMAN ANATOMY, PHYSIOLOGY AND DISEASE

Prerequisite: B- in Biology CP; Grades 11-12 2.5 CREDITS One Semester

Human Anatomy, Physiology and Disease is a lab course in Human Biology designed to give students an awareness of the interrelationships between the human body and its physical and social environments. In addition to the traditional anatomy and physiology which is covered to provide background, topics covered include the impact on the human body of diseases and disorders of biotechnology of drugs (prescription and otherwise), and of nutrition. How all of the above can impact on the next generation is examined. This course provides the opportunity to learn about diagnostic tests, (“blood work” to CAT scans and ultra sound scans), and treatments (by-pass heart surgery to radiation). This course contains some dissections.*

MARINE BIOLOGY 2.5 CREDITS

Prerequisite: B- in Biology One Semester

Marine Biology, a lab science, is an introduction for students interested in pursuing this area of study in college or to gain an understanding of the marine environment. The “hands on” course covers the understanding of the oceans, identification and classification of marine animals and plants, environmental factors, marine habitats, water analysis, and human interaction and conservation. Students will participate in laboratory activities, field trips and specimen dissections.

PHYSICS HONORS 6 CREDITS

Prerequisite: Semester 1 average of A- in current science course; Quarterly Assessment grades of A- or higher in current science course; B+ in Algebra

2 Honors OR A in Algebra 2 CP; teacher recommendation; concurrent enrollment or completion of Pre-Calculus or higher

Honors Physics is an inquiry based course designed to expand on the principles of how and why the world around us works. The course is designed to find practical applications of physics through experiments, data analysis, problem solving, projects, and discussions with an emphasis on mathematical applications. Students will investigate topics of motion, force, energy, waves, sound, light, and electricity & magnetism. This course is highly recommended for those students considering a career in science or engineering. Math intensive, Pre-Calculus infused within the context of the Physics content.

PHYSICS 6 CREDITS

Prerequisite: Semester average of B- or higher in Chemistry CP or Chemistry Honors; taking or completed Algebra 2 CP or Algebra 2 Honors; teacher recommendation Full Year

Physics is the mathematical study of matter and energy at the most basic level. Concepts are developed through demonstrations, real-world applications, the history and philosophy of the subject, problem-solving, and experiment. In the lab, students are acquainted with the collection and analysis of data. Topics include motion and forces, vectors, work and energy, heat, electricity, electromagnetism, waves, sound, light and Modern Physics.

SCIENCE IN SOCIETY: LIFE SCIENCE EDITION

Prerequisite: Grades 11-12 2.5 CREDITS One Semester

In this hands-on science laboratory course, students will explore the strange and wonderful aspects of biology. Scientific concepts learned in previous science classes will be applied to develop a deeper understanding of science in our everyday lives. Students will practice the scientific method by designing their own experiments and analyzing the resulting data. Students will distinguish between fact and opinion while deciding where they stand on controversial scientific issues that affect the public. Topics are determined based upon student and instructor interest and may be based, in part, on current events. Topics will inevitably include branches of brain science due to its popularity with students.

SCIENCE IN SOCIETY: ENERGY & TECHNOLOGY EDITION 2.5 CREDITS

Prerequisite: Grades 11-12 One Semester

This class begins with a study of flames and energy through a variety of hands-on experiments that utilize the scientific method. After that, topics are selected by students in the class by a vote or survey. Scientific concepts learned in previous science classes will be applied to develop a deeper understanding of science and technology in our everyday lives. Students will practice the scientific method by designing their own experiments and analyzing the resulting data.

Students will distinguish between fact and opinion while deciding where they stand on controversial scientific issues that affect the public. Topics will inevitably include engineering and building of structures, such as towers and bridges, due to its popularity with students.

DISSECTION OPTION STATEMENT

*Participation in hands-on science is important to learning science, and dissections are an important component of life science education. Dissections are recommended study methods in life science courses. Animal materials are used respectfully and for the purpose of meeting course objectives.

In cases where parents, or students 18 years of age or older object to dissection, teachers will provide alternatives to actual dissections. These alternatives may include, but are not limited to: computer simulations, media presentations, transparencies, textbook overlays, and reading/research.

If a parent chooses not to have his/her son/daughter take part in dissections, please notify the student's teacher in writing within two weeks of the start of class.

SOCIAL STUDIES DEPARTMENT

WORLD HISTORY HONORS 5 CREDITS

Prerequisite: **A- in Grade 8 Geography or Full Year supervisor recommendation**

This course begins with the development of the Muslim World and follows a chronological approach through the era of the Industrial Revolution near the turn of the twentieth century. Emphasis will be placed on the Medieval World, the Renaissance and Reformation, and the Age of Revolution. The course will require a significant amount of independent study involving a higher level of technological research.

WORLD HISTORY CP 5 CREDITS

Prerequisite: **Grade in present History class Full Year and/or teacher recommendation**

The course will offer students an overview of the development of humanity from Classical Greece and Rome through the French Revolution and rise of Napoleon. The course will show how people lived and related to one another in past societies and why the past affects our contemporary ways of living. Through reading, class discussion, research and written and oral reporting, students will take a look at important events that took place during the major stages in the history of the world.

WORLD HISTORY 5 CREDITS

Prerequisite: **Grade in present History class Full Year and/or teacher recommendation**

This course is a supportive instructional program designed for the student with language arts deficiencies who meets the

prerequisite listed above. The student will be presented with a survey of world history from pre-historic times to present.

ADVANCED PLACEMENT U.S. HISTORY 1 5 CREDITS

Prerequisite: **A- in World History Honors, Full Year teacher recommendation, and permission of department supervisor**

A.P. History 1 is a course developed for students who desire an in-depth study of the history of the United States from the age of exploration up to, and including, the Civil War. Extensive research and study will encompass: the aspirations and achievement of the young American nation striving for independence; the establishment of national institutions and the expansion of democracy; westward movement of the sectional crisis; and, the cause of the Civil War and the scars of its aftermath. Students will be exposed to the traditional and revisionist historical interpretations of the above areas in an attempt to broaden their understanding of the nature and development of public policy from the fifteenth to the nineteenth centuries.

U.S. HISTORY 1 HONORS 5 CREDITS

Prerequisite: **B in World History Honors or Full Year A in World History CP; teacher recommendation**

The course will provide the student with an in-depth study of the development of the American nation from the colonial times to the Reconstruction period. Areas to be highlighted include the American Revolution, the Constitutional period, the rise of political parties, Jacksonian democracy, and the growth of sectionalism in the 19th century. The course will also be supplemented by the reading of documents and literature pertinent to the period under consideration.

U.S. HISTORY 1 CP 5 CREDITS

Prerequisite: **Grade in World History Full Year and/or teacher recommendation**

The course will provide the student with an in-depth study of the development of the American nation from the colonial times to the Reconstruction period. Areas to be highlighted include the American Revolution, the Constitutional period, the rise of political parties, Jacksonian democracy, and the growth of sectionalism in the 19th century. The course will also be supplemented by the reading of documents and literature pertinent to the period under consideration.

U.S. HISTORY 1 5 CREDITS

Prerequisite: **Grade in World History and/or Full Year teacher recommendation**

The course is a supportive instructional program designed for the student with language arts deficiencies who meets the prerequisite listed above. The student will be presented with a survey of U.S. History from the Colonial Period up to World War 1. Areas to be highlighted include the American Revolution, the Constitutional period, the rise of political parties, Jacksonian democracy, and the growth of sectionalism in the 19th century. The course will also be supplemented by the reading of documents and literature pertinent to the period

under consideration.

ADVANCED PLACEMENT U.S. HISTORY 2 5 CREDITS

Prerequisite: AP US History 1 or teacher recommendation, and/or approval of department supervisor Full Year

A.P. U.S. History 2 is a continuation of the beginning course. It will provide an in-depth study of American foreign policy and domestic policy from the aftermath of the Civil War to the present. Some of the areas which will be included are: World War I, World War II, the Great Depression, and Watergate, as well as other problems which the United States still faces today.

U.S. HISTORY 2 HONORS 5 CREDITS

Prerequisite: B in US History 1 Honors or A in US History 1 CP or approval of department supervisor Full Year

A continuation of U.S. History 1 Honors. The course will provide students with an in-depth analysis of the growth of the United States as a world superpower. Beginning with the Imperialism movement of the twentieth century, the student will be presented with a chronological history of our development. Topics include: Imperialism, the Progressive Movement, World Wars, the Great Depression, the Cold War, the Civil Rights and protest movements, the return to conservatism, and the beginning of a new century.

U.S. HISTORY 2 CP 5 CREDITS

Prerequisite: Grade in US History 1 and/or teacher recommendation Full Year

The course will provide the student with an in-depth study of the development of the American nation from the post-Reconstruction period up to the present. Areas to be highlighted will include the growth of labor, the post-Civil War period, World War I, World War II, the Great Depression as well as post World War II domestic and foreign policies. The course will also be supplemented by the reading of documents and literature which are pertinent to the period under consideration.

U.S. HISTORY 2 5 CREDITS

Prerequisite: Grade in US History 1 Full Year

The course is a supportive instructional program designed for the student with language arts deficiencies who meets the prerequisite listed above. Areas to be highlighted will include the growth of labor, the post-Civil War period, World War I, World War II, the Great Depression as well as post-World War II domestic and foreign policies. The course will also be supplemented by the reading of documents and literature which are pertinent to the period under consideration.

AMERICAN GOVERNMENT/CIVICS 5 CREDITS

Prerequisite: Taking/completed US History 1 Full Year

This course will introduce students to the principles and relationships of the American governmental system. Emphasis will be placed upon the Constitution of the United States,

particularly the roles and responsibilities of the legislative, executive, and judicial branches of government, along with constitutional amendments. Topics will include: the foundations of American government, the arrangements between federal, state and local governments, elections, political parties, interest groups/lobbyists, and foreign diplomacy. Current issues within our country will also be examined. Students will gain hands-on experience in regards to all levels of American government.

CURRENT HISTORY 2.5 CREDITS

Prerequisite: Grades 11-12 One Semester

In order to keep pace with rapid changes of our times and to give students a realistic understanding of the problems in American life and in the world around them, students are encouraged to develop a familiarity with current events and interpret the news they read. Students will examine the economic, geographic, world, political, and sociological areas of today.

ECONOMICS & PERSONAL FINANCE 2.5 CREDITS

Prerequisite: Grades 10-12 One Semester

The Economics course of study is designed to present our student with a basic understanding of personal finance, an understanding of the basic principles of credit, interest, and debt to become responsible consumers in the future. Students will be presented with the basic principles of checking, savings, investments and taxes. The course will also provide the students with the tools they will need to understand basic financial principles and to come to grips with the innumerable economic problems confronting them today as individuals, a society, and as a government. Areas to be highlighted will include the consumer, business organizations, labor, the role of government, money and banking, and comparative economic systems.

THE GREAT METROPOLIS 2.5 CREDITS

Prerequisite: None One Semester

The course will provide students with the opportunity to explore the architecture, history, cuisine and society of the American Metropolis during the early 20th century. Emphasis will be placed on the various immigrant groups that came to the United States during that time period and the contributions they made to America.

HISTORY OF AMERICAN CULTURE 2.5 CREDITS

Prerequisite: None One Semester

This course will examine popular culture in the twentieth and twenty-first centuries and its impact upon American society. Students will analyze the evolution of music, art, film and entertainment from 1900 to the present day. Students will also interpret the ways in which these emerging media were shaped by, and helped to shape, major cultural, historical and social movements in American history. Popular songs, literature, movies, art, sports and television programs will be used as a means of discussing such recurring themes as gender and race relations, class struggles and youth empowerment. Students will come away from this course with a broader understanding and appreciation of the interplay between historical events and popular culture.

MODERN GLOBAL CONFLICTS 2.5 CREDITS

Prerequisite: Grades 11-12 One Semester

Students will examine situations in today's world that have caused strife among nations. Topics will include The New Europe, Revolution in the Middle East, Africa in Crisis, Latin America, Turmoil in Asia, Struggles to Keep World Peace, Human Rights, and Facing the Future.

PEER LEADERSHIP 5 CREDITS

Prerequisite: Grade 12, application, teacher recommendation, review Full Year

Peer Leadership is a course which prepares seniors to serve as role models/mentors to freshmen. The class meets five days a week, including one day designated as a "break-out" day when the peer leaders work in pairs with small groups of freshmen. Senior peer leaders undergo extensive training in human relations and group facilitation. They will also acquire interpersonal and leadership skills that will be invaluable to them in the future. The program addresses such problems as self-esteem, substance abuse, and social and cultural issues. Peer leaders help students develop coping skills that enable them to manage problems that they may encounter upon entering high school. Participation in a three-day orientation retreat, a two-day mid-winter retreat, and a one-day conference in the spring is required. (Practical Art)

PSYCHOLOGY 2.5 CREDITS

Prerequisite: Grades 11-12 One Semester

This course will help the student to develop a better understanding of his behavior as well as the behavior of others. Such topics as learning, emotions, coping with frustration and anxiety, the nervous system, motivation, personality behavior disorders and intelligence will be covered. Psychology, like any new science, contains certain conclusions derived from preconceived notions, speculation and the misinterpretation of facts. This course will develop in the student an unbiased attitude of scientific curiosity and an unwillingness to accept any information as fact that has not met the test of experimental verification of controlled observation.

SOCIAL ISSUES IN MODERN AMERICA 2.5 CREDITS

Prerequisite: Grades 11-12 One Semester

Social Issues in Modern America provides the student with a greater insight into current social problems. The course explores the role of youth in today's society, campus unrest, crime and racial conflict. Additionally, the course attempts to increase student involvement in the social environment and to foster a willingness to actively participate in solving the problems facing that environment.

STREET LAW 1 2.5 CREDITS

Prerequisite: Grades 11-12 One Semester

Street Law is a one semester course in which students will gain a fundamental knowledge of American Law and our legal system. The basic aim of the course is to develop an appreciation of the importance of law and the significant part it plays in our everyday lives. The curriculum is designed to

provide students with an understanding of their legal rights and responsibilities, a knowledge of legal problems, and the ability to analyze, evaluate, and in some cases, resolve legal disputes. The course will also address general problems in the areas of criminal, consumer, family, housing, as well as individual rights, law.

STREET LAW 2 2.5 CREDITS

Prerequisite: Street Law 1 One Semester

This course will allow students to delve into their First Amendment Rights, particularly Freedom of Expression and the right to privacy, along with our guaranteed freedoms as expressed in the Bill of Rights. Liability and negligence will also be stressed.

TOMORROW'S TEACHERS 5 CREDITS

Prerequisite: Grade 12 Full Year

This course is a study of the history, development, organization and practice of preschool, elementary and secondary education. The primary goal of the Teacher Cadet program is to encourage students to consider teaching as a career. Students will learn about the realities of public education and alternatives to public education. This is an honors course.

WORLD GEOGRAPHY 2.5 CREDITS

Prerequisite: None One Semester

World Geography will give the student a basic understanding of the geography of today's world. It will place special emphasis on the interrelationship of physical, cultural, and economic geography. In the course, eight geographic regions will be studied with special emphasis on the United States. A further major element of the course will be the development of geographic skills. Globes, maps, graphs, charts, and tables will be used to build geographic skills.

TECHNOLOGY DEPARTMENT

A variety of courses are offered in industrial and technical areas. All courses involve hands-on activities and range from exploratory to vocational in nature. Because of the nature of the activity, attendance is an important factor for successful completion of the course. Safety glasses **MUST** be worn in areas of hazardous activity; cleanup is a student's responsibility.

Safety Glasses

School Board policy dictates that safety glasses be worn by everyone in areas of hazardous shop activity. Infractions will result in disciplinary action and/or removal from that activity with resultant loss of credit.

Monies Owed

Costs attributed to materials used and/or lost, or broken tools must be paid prior to the final exam.

AUTO TECHNOLOGY 1 2.5 CREDITS
Prerequisite: None One Semester
This course is designed for the potential driver. Students are given insight to the several component parts of the automobile. Covered in the course are automobile maintenance procedures, emergency trouble-shooting, understanding of basic systems, and tune up specifications. Also covered are the identification of basic parts of the internal combustion engine. (Practical Art)

AUTO TECHNOLOGY 2 5 CREDITS
Prerequisite: Auto Technology 1 and/or Full Year
teacher recommendation
Students learn more advanced skills pertaining to automotive fundamentals. The operational systems of the automobile are the main objectives of the program including on board computers and sensors. Auto body repairs are introduced as well as mechanical procedures. (Practical Art)

AUTO TECHNOLOGY 3 5 CREDITS
Prerequisite: Auto Technology 2 and/or Full Year
teacher recommendation
Auto 3 allows time for individualized instruction in student selected projects. Students are acquainted with various phases of mechanical and auto body repair operations and skills. Students perform operations similar to those found in established auto repair shops preparing them for future employment. (Practical Art)

ENGINEERING DRAWING 5 CREDITS
Prerequisite: None Full Year
This is a basic course in mechanical drawing skills. It includes instruction in the use and care of all equipment. Line weight and identification, lettering and dimensioning techniques, orthographic or three-view drawing, isometric and oblique drawing and basic blueprint reading are covered. Computer aided drafting comprises 50% of the course. (Practical Art)

ELEMENTS OF DESIGN 5 CREDITS
Prerequisite: B in Engineering Drawing Full Year
This course is designed for students interested in adding to their knowledge and skill in the field of drafting and/or design centered on the development of patterns used in packaging work. Attention is given to a review of drafting skills and geometric construction. In the final phase of the course, an opportunity for self-expression is provided through the design and drawing of a student-originated project in the field. All drawing and design activity will be centered on the computer drafting equipment. (Practical Art)

ARCHITECTURAL DESIGN 5 CREDITS
Prerequisite: B in Engineering Drawing Full Year
The course is organized following much the same sequence that tradesmen follow in constructing a house. For example, the pupil studies footings and foundations before studying framing and roof construction. It is important that pupils gain working knowledge of construction detail so that they will be able to draw workable plans. Students will study the details of a house. Along with the ability to express their own ideas

according to accepted drafting standards, pupils develop the ability to read and interpret drawings and specifications that have been prepared by others. Exercises in blueprint reading accompany the various drafting problems. Computer aided drafting equipment will be utilized throughout the course. (Practical Art)

ADVANCED ARCHITECTURAL DESIGN 5 CREDITS
Prerequisite: Architectural Design Full Year
This course will take the student's knowledge from Architectural Design course to the next level. The student will utilize the basic design rules to design the house of his/her choice. The design will be presented through the preparation of a set of drawings that will include: floor plans, foundation (basement) plan, plot plan, electrical plan, plumbing plan, front, rear and side elevations, interior details, stair details and wall sections. The final phase of the course will include the building of a scaled exterior model from the completed plans. Computer aided drafting equipment will be utilized. (Practical Art)

ROBOTICS 5 CREDITS
Prerequisite: None Full Year
This hands-on course will enable students to learn the basic tenements of designing, creating and programming of robots. Mathematical and scientific skills and concepts will be reinforced. Connections to modern, real world issues, such as technological impact and the energy crisis will also be stressed. The ultimate goal would be to sponsor a robotics team for competition. (Practical Art)

WOOD 1 2.5 CREDITS
Prerequisite: None One Semester
Wood Shop 1 is an introductory class in woodworking skills and techniques. Emphasis is hands on techniques in hand/power tools operation through the construction of a project (or projects) to be used in the home, yard, or garage/workshop. (Practical Art)

WOOD 2 5 CREDITS
Prerequisite: Wood 1 and/or teacher Full Year
recommendation
Wood Shop 2 is a full year course designed to create an appreciation of the industry and to develop entry-level skills within the carpentry construction trade. Opportunities to develop skills for personal use and to make a successful transition from school to the work place or post-secondary institutions will be presented. This course is designed to provide Level 1 apprenticeship theory and content within the trade. Practical experience will be gained within the school through the use of new construction, remodeling and renovation techniques in both residential and commercial construction. (Practical Art)

WOOD 3 5 CREDITS
Prerequisite: Wood 2 and/or teacher Full Year
recommendation
Wood Shop 3 elaborates further construction techniques, new developments and practices related to cabinetry, and residential and commercial construction. Areas of remodeling

such as light electrical, plumbing, HVAC will also be presented to open student awareness to the many other trades available. Specific areas such as kitchen, bathroom, new construction and remodeling will be emphasized. (Practical Art)

WORLD LANGUAGE DEPARTMENT

LEVEL 1 – FRENCH, SPANISH 5 CREDITS

Prerequisite: None Full Year

The goal of Level 1 language courses is to master the basic skills of listening, speaking, reading, and writing and to develop a sense of appreciation for the culture, mores and civilization of the foreign land whose language is being studied.

LEVEL 2 – FRENCH, SPANISH 5 CREDITS

Prerequisite: Successful completion of the Level 1 course Full Year

Level 2 language courses will continue to reinforce the skills learned in Level 1 and to place emphasis upon the development of fluency in the comprehensive reading of the target language.

LEVEL 3 – FRENCH, SPANISH 5 CREDITS

Prerequisite: B in Level 2; teacher recommendation; B+ for Semester One average Full Year

These courses further develop aural-oral skills and broaden the reading skills developed at Level 2. They also introduce outstanding literary works, principally short stories or short novels.

LEVEL 4 – FRENCH, SPANISH 5 CREDITS

Prerequisite: B in Level 3; teacher recommendation; B+ for Semester One Full Year

Emphasis in Level 4 is placed on the ability to converse in the target language on chosen topics of discussion and to achieve an appreciation of literature of the target language.

ADVANCED PLACEMENT SPANISH 5 CREDITS

Prerequisite: B in Level 4 and teacher recommendation Full Year

Students who have successfully completed Level 4 of the language and have indicated a level of fluency will be eligible for this course. The curriculum will be geared to the development of advanced language skills necessary to prepare for the Advanced Placement Examination.

APEX LEARNING

APEX LEARNING: INDIVIDUAL ONLINE COURSES FOR CREDIT

Apex Learning offers rigorous, standards-based online courses that meet high school graduation requirements. These courses provide students the option to take one of their courses virtually to meet the occasional scheduling conflict, or to provide an online course in a subject area not currently offered in the traditional classroom setting. Apex Learning offers a comprehensive course catalog and subject certified teachers. The following courses are currently available:

AP Government and Politics	Latin
AP Macroeconomics*	Mandarin Chinese
AP Microeconomics*	Media Literacy
AP Psychology	Multicultural Studies
College and Career Prep	Skills for Health
German	Sociology

*Successful completion of Economics is the prerequisite for AP Macroeconomics and AP Microeconomics.