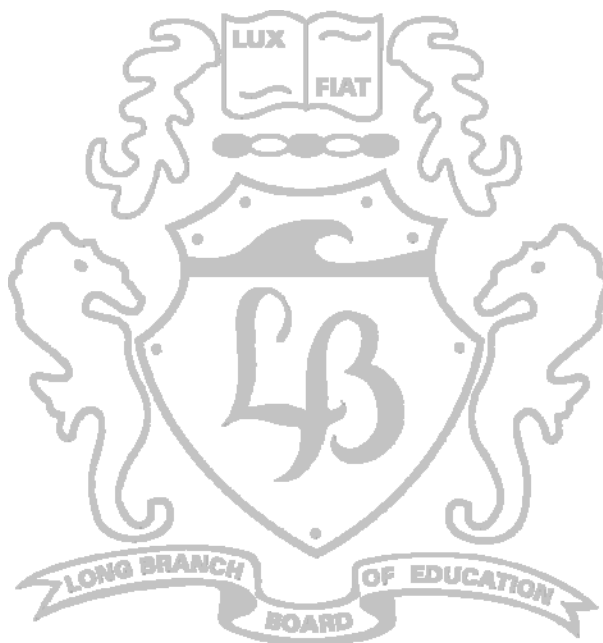


# LONG BRANCH PUBLIC SCHOOLS



## HIGH SCHOOL PROGRAM OF STUDIES

2012-13

SCHOOL OF LEADERSHIP

SCHOOL OF SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

SCHOOL OF VISUAL AND PERFORMING ARTS

404 Indiana Ave  
Long Branch, NJ 07740  
[www.longbranch.k12.nj.us](http://www.longbranch.k12.nj.us)  
732-229-7300

# Program of Studies

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# LONG BRANCH PUBLIC SCHOOLS

Long Branch, New Jersey

*Where Children Matter Most*

2011-2012

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School Business Administrator/Board Secretary

Nancy L. Valenti  
Assistant School Business Administrator/Assistant Board Secretary

**Long Branch High School**



## **Academies**

The Academy structure at the Long Branch High School will allow students individualized attention and direction in their career paths. Every academy will offer the student the core curriculum requirements that they will need to receive their diploma. Part of the curriculum will include elective studies to help students develop their career pathways.

### **Academy of Sciences, Technology, Engineering & Mathematics**

The Academy of Sciences, Technology, Engineering and Mathematics will provide opportunities of study for students whose areas of interests are mathematics, scientific and/or technologically-oriented curricula. In the science strand the students will explore and study all facets of science including physics, biology, and chemistry. In the technology strand the students will be exposed to curricula designed to familiarize them with all phases of computer applications and usage.

### **Academy of Leadership**

The Leadership Academy provides the students the opportunity to explore the areas of civics, business and education. The Civics strand will focus on Law and Public Service. Students will learn about local and state government and participate in activities that impact the community in which they live. The Business and Law strand will help students become talented managers, leaders and future administrators with business skills and knowledge needed for the 21<sup>st</sup> century. The Education Strand will provide course offerings to students with a realistic understanding of teaching and encouraging students to think seriously about the teaching profession.

### **Academy of Visual and Performing Arts**

The Visual and Performing Arts Academy will be the balance between artistic development and academic preparation. Students will explore multi-media careers along with the creative aspects of the tech and business and world along with educational pursuits.

## **PROGRAM OPTIONS**

Long Branch High School offers a variety of program options. Descriptions for these program offerings are listed below.

### **Advanced Placement Program**

AP courses are college level courses, with a higher level of expectation than Honors courses. Upon completion of these courses, students should plan to take the appropriate AP Exam. A score of a 3 or more on a scale of 1-5 may result in placement and/or credit at the college level. There is summer preparation work required for many of the AP courses. AP courses are granted additional weight in the GPA calculation.

AP courses typically offered by Long Branch High School include:

AP English 12  
AP U.S. History II  
AP World History  
AP American Government

AP Psychology  
AP Calculus  
AP Biology  
AP Physics

AP Chemistry  
AP Macro-economics

### **Honors Program**

Honors courses often include an in-depth study of particular subjects accompanied by rigorous demands upon students in terms of study skills, homework, and independent projects. Honors level courses are granted additional weight in the GPA calculation. Placement in Honors level courses is based in part on students meeting appropriate prerequisites, previous grades earned in the subject area and teacher recommendation. Parental input also plays a role in the placement of students into the Honors program.

### **Special Education**

Long Branch High School provides special education and/or related services to classified students. These programs are designed to meet individualized needs of each child as prescribed in the students Individual Education Plan (IEP). The IEP is developed with the assistance of the Child Study Team, the parent(s)/guardian(s) of the child, a special education teacher and a regular education teacher. The continuum of services offered includes departmentalized and non-departmentalized self contained classes, resource center replacement classes and in-class support in regular education classes. Related services include adaptive physical education, speech and language therapy, counseling, occupational therapy, physical therapy and transportation. Special education students are generally mainstreamed for elective and physical education courses.

Course offerings are English, mathematics, social studies, science, and reading. The curricula used will be the same for the classified and the non-classified student with modifications in instructional strategies and/or testing procedures based upon modifications in the student's IEP. Vocational opportunities are available to special education students through the Monmouth County Vocational programs and Career Center.

Each student's program is continually evaluated to provide consistency in his/her course of study and adequate knowledge for present and future use so that he/she can make a successful transition to life after high school.

### **ESL/Bilingual Education**

These are intensive language acquisition courses offered to all ELL students' grades 9-12 according to their language proficiency levels. These courses develop four basic language skill areas: listening, speaking, reading, and writing. They integrate basic proficiencies from the English Department courses adapting the English curriculum such as the study of literature, paragraph development, and job skills. Study skills and learning strategies are taught for test preparation. The courses prepare students to enter content area academic subjects and give them credit for English I, II and III.

### **DROPPING/ADDING COURSES**

Please take the time to choose courses that are the best match for you. Take into account your interests,

ability, and goals. Careful selections at the time of registration will result in fewer problems once the 2012-13 school year begins.

Changing courses after the academic year has started can often be very disruptive to a student's schedule. Schedule changes will ONLY be permitted up to two weeks (10 school days) from the first day of the class. In order to accommodate a change in classes, there could be a disruption in other areas of a student's schedule. Students will be responsible for making up any missed work in the new course. Any changes after the first quarter could result in a failing grade which will be considered as a complete grade in determining National Honor Society, class rank, Varsity Scholars or athletic eligibility.

## **GRADUATION REQUIREMENTS**

The Board of Education of the Long Branch School District has established high school graduation requirements with state and district goals. In order to graduate from Long Branch High School and receive a state-endorsed Board of Education diploma, a pupil must:

Successfully complete a program of studies in grades nine through twelve, which shall include, but are not limited to:

Core Curriculum Content	Minimum Courses and Credit Requirement
Language Arts Literacy (LAL)	At least twenty (20) credits including English 9, English 10, English 11, English 12
Mathematics (MA)	At least fifteen (15) credits including Algebra and Geometry
History (HIS)	At least fifteen (15) credits including World History, United States History I and II
Science (SC)	At least fifteen (15) credits
World Language (WL)	At least five (5) credits
Visual and Performing Arts (VPA)	At least five (5) credits
Career Education and Consumer Science (CCS)	At least five (5) credits
Financial, Economic, Business & Entrepreneurial literacy (FEBE)	At least two and a half (2.5) credits beginning with the class of 2014
Physical Education (PE)	At least five (5) credits for each year of enrollment
General Electives (GE)	No minimum required

Each student must successfully pass the New Jersey High School Proficiency Assessment (HSPA) or Alternative High School Assessment (AHSA) in language arts literacy and mathematics and earn a minimum of 120 credits to be awarded a high school diploma.

Current graduation requirements are subject to change by the state and/or local Board of Education.

## **STATE TESTING**

To meet NJ state graduation requirements all eleventh grade students must pass the High School Proficiency Assessment (HSPA) given in March. Students must achieve proficiency in both the language arts and mathematics areas for graduation. Students have an additional opportunity during their senior year in October and March to retake those parts of the test which they did not show proficiency. The Alternate High School Assessment (AHSA) is a State-issued alternative exam for students who are unable to achieve a passing score on the HSPA. The AHSA allows students to be retested only on the specific skills in which they were unable to demonstrate proficiency. Students will be required to take and pass any end-of-course tests mandated by the state. Course schedules will be altered should student test scores indicate a need for remedial assistance.

### **Grade Weighting (Honors Courses)**

The weighting of grades shall take place for the following honor and Advanced Placement courses:

#### **English**

English 9	English 10	English 11	A.P. English
			English 12

#### **History**

World History	U.S. History I	A.P. US History II	A.P. World History	A.P. American Government
		U.S. History II		A.P. Macroeconomics

#### **Science**

Biology	Chemistry	Physics	A.P. Biology	A.P. Chemistry	A.P. Physics
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#### **World Language**

French IV	French V	Italian IV	Italian V	Spanish IV	Spanish V
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#### **Mathematics**

Algebra I	Algebra II	Geometry	Pre-Calculus	AP Calculus
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In order not to penalize a student who earns a lower grade in a more challenging course, a weighted value is added to the grades earned in the courses listed above.

### **CLASS RANK**

Class rank is determined by placing the cumulative grade average of the students in descending order.

### **GRADING**

The following numeric grades are utilized for assessing students. It is the responsibility of the students to meet all academic and attendance obligations related to grades. Grades in the ranges listed are described by the comments indicated.

92-100	Excellent	I	Incomplete
84-91	Good	W	Withdrawal
77-83	Fair	ME	Medical Excused
70-76	Poor	NC	No Credit Status
Below 70	Failure		

### **REQUIREMENTS FOR PROMOTION**

Credits will clarify a student's grade level status. In order for a student to move on to the next grade level, each student must acquire the following credits:

Grade	Minimum Credits Earned
10	27.5
11	55
12	85
	120 credits needed to graduate

### **HONOR ROLL CRITERIA**

To be eligible for honor roll, High School students must have grades as follows:

- a. High Honors – An average of 92 or above with only one grade below 92 and that grade cannot be below an 84.
- b. Honors- An average of 84 with only one grade below an 84 and that grade cannot be below a 77.

An incomplete grade in any subject or a dropped subject will render a student ineligible for any honor roll.

### **AFFIRMATIVE ACTION NOTIFICATION**

"It is the policy of the Long Branch School District not to discriminate on the basis of race, color, creed, religion, sex, ancestry, national origin, social or economic status or handicap in its educational programs or activities and employment policies" as required by the Title IX of the Educational Amendments of 1972 and the Title 6 of the New Jersey Administrative Code.

Affirmative Action Officer  
504 Compliance Officer  
Desegregation Officer

Ms. JanetLynn Dudick  
Mrs. Josette Noguiera  
Mr. Michael Salvatore





**1905 Yearbook Journalism**

5.0 Credits

CCS

This course will present the fundamentals and techniques of photo-journalism including basic photography, photo selection, identification of subjects, caption writing, theme selection, layouts, graphics, advertising and finance. Students will participate in designing and producing the yearbook.

**2823 Mythology**

NCAA 5.0 Credits

GEN

This course is centered on the importance of mythology in world cultures. The course will survey myth from ancient origins through contemporary manifestation in several cultures such as Greek/Roman/European, Far and Middle Eastern, African and African-American, Native American, South American and Meso-America variants. The overall objectives are to compare and contrast major mythological ideas and origins and to display understanding of the development of archetypal figures in modern stories based on myths.

**2145 Race, Gender and Ethnicity**

NCAA 5.0 Credits

GEN

This course will study the many cultures that help shape our school. Novels and short stories will be explored and examined with the literature studied from both a historical and contemporary perspective.

**1922 Shakespeare**

NCAA 5.0 Credits

GEN

*Restrictions: Grade 11 and 12 students*

Students will complete an in-depth study of Shakespeare's plays and poems with a particular emphasis on comedies. Students will read various works by Shakespeare literally, inferentially and critically. They will also discuss the relevance of Shakespeare's themes in modern society. Students will write a formal research paper following standard MLA format.

**9660 SAT English**

2.5 Credits

GEN

This course is designed to develop the reasoning skills and conceptual knowledge base needed for success on the SAT examination. Test-taking strategies and techniques will also be discussed. Practice SAT tests will be administered to prepare for the actual test.

**SCIENCE****4311, 4322, 4331 Geophysical Systems**

NCAA 5.0 Credits

SCI

Geophysical systems focus on understanding the Earth as a series of interrelated systems, incorporating studies of earth science and physical science. The focus of each unit is on investigation by the student in the processes occurring in, on and around the earth. In addition to science content, writing and mathematical skills are woven into the curriculum.

**1320, 2320, 3320, 4320 Biology Honors**

NCAA 5.0 Credits

SCI

*Prerequisite: A grade of 86 or above in previous science class. It is also recommended that the students have successfully completed Algebra I or be concurrently enrolled in Algebra I.*

This course is recommended for students who have demonstrated above average ability in math and science and plan to pursue a career in the engineering, computer, environmental and various medical related fields. Topics include the study of cell structure and function on a molecular level such as photosynthesis, respiration and protein synthesis. Also included are ecology, human and animal physiology, genetics, anatomy and bioenergetics.

**1321, 2321, 3321, 4321 Biology**

NCAA 5.0 Credits

SCI

*Prerequisite: Geophysical Systems*

This course presents principles, theories and law of the physical sciences; and explains their interrelationship to living organisms, from the least to the most complex. The lab sessions reinforce important biological concepts learned in the classroom

**5350 Advanced Placement Biology**

NCAA 6.0 Credits

SCI

*Prerequisite: Biology, Chemistry, Physics. Students may be concurrently enrolled in Physics.*

Advanced Placement Biology is a second year of biology, which is based upon the College Board Curriculum Guide for College Level Biology. Laboratory work, as related to classroom theory, will be extensive. Students will be prepared to take the Advanced Placement Exam.

**1330, 2330, 3330 Chemistry Honors**

NCAA 5.0 Credits SCI

*Prerequisite: Algebra I, Biology or Biology Honors*

This course is designed for the student who has an interest in science. Those who plan to major in computer science, medicine, engineering, nursing, etc., should select this course. Students who earn less than 84 in Algebra I might find this course difficult.

**1331, 2331, 3331 Chemistry**

NCAA 5.0 Credits SCI

*Prerequisite: Biology or Biology Honors*

This course provides a basic introduction to the concepts of modern chemistry for students who plan to continue their education beyond high school.

**5360 Advanced Placement Chemistry**

NCAA 6.0 Credits SCI

*Prerequisite: Biology Honors or Biology, Chemistry Honors or Chemistry, Physics*

Advanced Placement Chemistry is a second year of Chemistry that is based upon the College Board Curriculum Guide for College Level Chemistry. The maintenance of the 84 average for the first three marking periods is an indication that the student is well prepared to take the Advanced Placement Examination that is given in May.

**5341 Physics**

NCAA 5.0 Credits SCI

*Prerequisite: Algebra I, Chemistry or Chemistry Honors*

This is an introductory course with some emphasis on the historical and philosophical aspects of science. It is designed primarily for the college preparatory student who is interested in the humanities. Course materials are designed to provide a more qualitative than mathematical approach to the study of light, mechanics, magnetism, electrostatics, and electricity.

**5330 Physics Honors**

NCAA 5.0 Credits SCI

*Prerequisite: Algebra I, Chemistry or Chemistry Honors*

This is a college preparatory course in physics. Physics is presented as a unified science and not as a series of disconnected topics. Course work will include problems in optics, mechanics, magnetism, electrostatics, electricity and modern physics, and will stress mathematical solutions.

**5340 Advanced Placement Physics**

NCAA 6.0 Credits SCI

*Prerequisite: Physics or Physics Honor*

This is a second-year physics course designed for above average students who have demonstrated ability, originality, and interest in either Physics Honors or Physics. Emphasis will be placed on those topics which were not covered in the first year of Physics. Extensive work will be done in the areas of thermal energy, solid state physics, nuclear energy, sound energy and sole related topics in mechanics. Students may be required to work on a project related to his/her interest.

**3346 Environmental Science**

NCAA 5.0 Credits GEN

*Prerequisite: Must have successfully completed Biology and Chemistry*

This course is designed to make maximum use of the natural resources that are in Long Branch. The emphasis will be on an aquatic environment and through a laboratory-based curricula, the class will study our local environment as a microcosm of the world in general. Students will make visits to local lakes, rivers and oceans and will do extensive experiments followed by formal write-ups and presentations.

**3345 Forensic Chemistry**

NCAA 5.0 Credits GEN

*Prerequisite: Must have successfully completed Biology and Chemistry*

This course is designed as a laboratory based career chemistry course that will involve advanced investigative techniques. Students will solve problems both real and hypothetical, and to analyze evidence. Using scientific techniques, they will explore the exciting world of the forensic chemist. Students will do formal lab write-up and perform test and make hypothesis.

**3347 Comparative Anatomy**

NCAA 5.0 Credits GEN

*Prerequisite: Biology and Chemistry*

This course explores the anatomy of many different animals. Students will investigate the body plans of simple invertebrates, anthropoids, fish, amphibians, reptiles, birds, mammals, and humans. This is a lab based course that will rely heavily on dissections. Because of safety, it is important that students first successfully complete Biology and Chemistry.

## **MATH**

### **4211, 4221, 4231 Algebra I 4236 Algebra I Honors**

NCAA 5.0 Credits

MA

The course will build comprehensive mathematical knowledge base that the students will use to move on to the higher-level mathematics. The course will provide lessons to meet the standards on Operations on Numbers and Expressions, Algebraic Expressions, Linear Relationships, Linear Equations and Inequalities, Non-Linear Relationships and Equations, and Data, Statistics and Probability using the investigative approach. Appropriate technology will be used on all lessons including but not limited to TI-84 calculator.

### **1210, 2210, 3210, 4230 Geometry Honors**

NCAA 5.0 Credits

MA

*Prerequisite: A grade of 84 or above in Algebra I. A score of Proficient or better in the most recently taken standardized test (NJPASS) and teacher recommendation.*

This course is designed for the advanced student to provide an in-depth study of the Geometry topics, including Points, Lines, Planes and Angles. Parallel Lines and Planes, Congruent and Similar Polygons with Enhanced Focus on Triangles, Quadrilaterals, Right Triangles, Circles, and Area and Volume. Students will use theorems and postulates throughout the course to solve problems. Through investigations, teacher lecture, high order questioning, student participation, cooperative learning, and technology applications, students will complete the course with a clear understanding of key concepts in geometry as describe by the standards. Appropriate technology will be used on all lessons including but not limited to Geometers Sketchpad.

### **1221, 2221, 3221 Geometry**

NCAA 5.0 Credits

MA

This course is designed to provide an in-depth study of Geometry topics, including Points, Lines, Planes and Angels, Parallel Lines and Planes, Congruent and Similar Polygons with Enhanced Focus on Triangles, Quadrilaterals, Right Triangles, Circles Area and Volume. Students will use theorems and postulates throughout the course to solve problems. Through investigations, teacher lecture, high order questioning, student participation, cooperative learning and technology applications students will complete the course with a clear understanding of the key concepts

in geometry as describe by the standards. Appropriate technology will be used on all lessons including but not limited to Geometers Sketchpad.

### **1220, 2220, 3220 Algebra II Honors**

NCAA 5.0 Credits

MA

*Prerequisite: A grade of 84 or above in Geometry. A score of proficient or better in the most recently taken standardized test (NJPASS) and teacher recommendation.*

Algebra II Honors is a more in-depth study of the Algebra II topics. This is a discovery based course where students will conduct investigations in order to explore and gain an in-depth understanding of high level algebraic concepts which include exponential and logarithmic functions, trigonometry and linear programming. Appropriate technology will be used on all lessons including but not limited to TI Nspire.

### **1231, 2231, 3231 Algebra II**

NCAA 5.0 Credits

MA

Algebra II extends the discussions of Algebra I to include complex numbers, quadratics, polynomial functions, matrices and conic sections and probability. The primary goal of the course is to enable students to make sense of important algebraic concepts to be used in real life situations through discovery and investigation methods. Appropriate technology will be used on all lessons including but not limited to TI Nspire.

### **5241 Precalculus**

NCAA 5.0 Credits

MA

*Prerequisite: A grade of 77 or above in Geometry and Algebra II.*

Precalculus reviews concepts covered in Algebra II and extends to cover theory of polynomial equations complex numbers, graphs of functions, trigonometry, conic sections and sequences and series. Students will be exposed to the use of the TI-83 graphing calculator and challenged with critical thinking and multiple approaches to problems and applications. Students completing the course should have a solid background and be well prepared for college level mathematics courses.

### **5230 Precalculus Honors**

NCAA 5.0 Credits

MA

*Prerequisite: A grade of an 84 or above Geometry and Algebra II.*

Precalculus reviews concepts covered in Algebra II and extends to cover theory of

polynomial equations complex numbers, graphs of functions, trigonometry, conic sections and sequences and series. Students will be exposed to the use of the TI-83 graphing calculator and challenged with critical thinking and multiple approaches to problems and applications. Students completing the course should have a solid background and be well prepared for college level mathematics courses.

#### **5240 Advanced Placement Calculus**

NCAA 5.0 Credits MA

*Prerequisite: A grade of 84 or above in Precalculus.*

This course is designed to prepare the students for the Advanced Placement Exam in Calculus. Topics include a review of functions, graphs and various Precalculus topics as well as limits, continuity, derivatives, applications of differentiation, integrals and application of integration. Students will be assigned graphing calculators to be used throughout the course.

#### **1247 Contemporary Mathematics**

NCAA 5.0 Credits MA

*Prerequisite: Completion of Algebra I, Algebra II, and Geometry.*

The mathematical education of students at all levels should include information and experiences that will help them appreciate and value the role of mathematics in modern society. This course includes topics in modern mathematics such as set theory, Venn Diagrams, probability, logic, statistics and voting procedures. All the topics in this course will require critical thinking and analysis.

#### **5248 Statistics**

NCAA 5.0 Credits MA

This course lays the ground work for college study and develops a deeper understanding of mathematics and its role in the sciences. The following topics are included: probability, ANOVA, and simulation. Students are prepared through a rich exploration of the role of probability/statistics in science, engineering/technology and society.

#### **9658 SAT Math**

2.5 Credits MA

This course is designed to develop the reasoning skills and conceptual knowledge base needed for success on the SAT examination. Test-taking strategies and techniques will also be discussed. Practice SAT tests will be administered to prepare for the actual test.

### **HISTORY**

#### **4430 World History Honors**

NCAA 5.0 Credits HIS

*Prerequisite: A grade of 87 or above in Grade 8 gifted class and teacher.*

This course presents an in-depth survey of world history.

#### **4411, 4421, 4431 World History**

NCAA 5.0 Credits HIS

This course presents a survey in world history.

#### **1420, 2420, 3420 U.S. History I Honors**

NCAA 5.0 Credits HIS

*Prerequisite: A grade of 84 or above in World History or World History Honors and teacher recommendation.*

This course is an in-depth presentation of the United States History from Pre-Colombian North America to the beginning of the Industrial Era.

#### **1421, 2421, 3421 U.S. History I**

NCAA 5.0 Credits HIS

This course covers U.S. history from Pre-Colombian North America to the beginning of the Industrial Era.

#### **5430 Advanced Placement U.S. History II**

NCAA 5.0 Credits HIS

*Prerequisite: A grade of 84 or above in U.S. History I Honors or U.S. History I and teacher recommendation.*

This course is an in-depth presentation of the United States history. The culmination of the course is the advanced placement exam. Therefore, although the emphasis will be on U.S. history from the Industrial Era to the present, some review of the U.S. History I material will be necessary.

#### **5420 U.S. History II Honors**

NCAA 5.0 Credits HIS

*Prerequisite: A grade of 84 or above in US History I or US History I Honors and teacher recommendation.*

This course is an in-depth presentation of the United States history.

#### **1431, 2431, 3431 U.S. History II**

NCAA 5.0 Credits HIS

This course covers U.S. History from the Industrial Era to 1960.

#### **5450 Advanced Placement American Government/Politics**

NCAA 5.0 Credits HIS

*Prerequisite: Successful completion of AP U.S. History II and teacher recommendation, in addition to a summer reading requirement.*

This course is designed to give students an analytical perspective on government and politics in the United States. Students will become aware of the variety of theoretical perspectives and explanations for different behaviors and outcomes concerning previous historical situations. It will also provide a solid understanding of the present day-decision making process in Washington. Monmouth University will award (3) college credits acceptable at any college in the United States, if student receives a cumulative grade of 85 or higher.

#### **5440 Advanced Placement World History**

NCAA 5.0 Credits HIS

*Prerequisite: A grade of 84 or above in AP U.S. History II or U.S. History II and teacher recommendation in addition to a summer reading requirement.*

This course is offered as an elective to seniors. Students will analyze comparative religions and philosophical thought. It is an intensive study of World History, culminating in the advance placement exam.

#### **5435 Advanced Placement Psychology**

NCAA 5.0 Credits HIS

This course is a preparatory college course that considers the individual human mind, ranging from human thought, behaviors, and actions. This course concentrates on a wide range of individual issues including; Freudian schools of thought, dreaming, states of consciousness, abnormal psychology, and include a wide range study of the human brain. Participation in individual case studies, visits to several mental institutions, and end of the year research project are mandatory. A final research project concentrating on the internal thought processes and simulated psychological publication of material would be practiced.

#### **2937 Law**

NCAA 2.5 Credits CCS

A college preparatory course in American Law. Emphasis will be on constitutional law, especially as it relates to the Bill of Rights, tort law, property law and contract law.

#### **2933 Economics**

NCAA 2.5 Credits CCS

Students selecting this course will learn of the influence of economic considerations on major historical events in the U.S. History. A significant amount of time will be devoted to understanding the Securities Exchange. Students will also participate in the Stock Market Game.

#### **2938 Criminal Justice**

NCAA 5.0 Credits CCS

This course is designed to appeal to students who have indicated an interest in careers in the law enforcement field. These careers would include such areas as police, sheriff's department, corrections officers, probation and parole officers, lawyers and paralegals. The course is an in-depth examination of the criminal justice and criminal procedures field and will be writing intensive.

#### **2931 Sociology/2932 Psychology**

NCAA 5.0 Credits CCS

This course is a college preparatory course in sociology and psychology. The sociology portion will survey the different forms and structures of societies and the reasons for the differences including patterns of behavior. An examination of the American institutions such as the family, education and religion will be part of the psychology. The theories of Freud, Skinner, Erickson and others will be studied. All of the modern schools of psychology will be investigated in an effort to understand what factors shape one's personality. How psychology is applied in education, parenthood and social situations will be covered. A research paper and autobiography will be required of all students in this course.

#### **2936 World Geography**

NCAA 5.0 Credits GEN

This introductory course on geography is to provide students with the ability to use maps and geographical data concerning the earth's surface, environmental, cultural aspects and physical limitations. The course will also provide students with the sufficient knowledge to recognize the impact geographical relationships have upon nations and the influence this topic has upon international affairs. Upon completion of the course students will have a solid foundation in world geography and be able to characterize and analyze the ever changing globalization taking place in the 21<sup>st</sup> century.

#### **1933 African American Studies**

NCAA 5.0 Credits GEN

This course will offer students the opportunity to learn about the African-American's role in American history. It will deal with African roots, participation in explorations, colonization, the American Revolution, Civil War, etc. to the present. In addition, this course will cover United States history from 1960 to the present.

**1935 United States History III/The Vietnam Era**

NCAA 5.0 Credits

GEN

This course covers the politics and cultural changes beginning with the Cold War and America's entry into the Vietnam War. This course offers opportunity to study the current news and debate on historical issues. The course provides a chance to discuss current history topics. Projects include experiencing oral history at the Vietnam memorial and from current United States armed forces participants. This class will include an in-depth study of current events, world views, and include current war analysis.

**5436 AP Macroeconomics**

5.0 Credits

CCS

*Prerequisite: Teacher recommendation and successful completion of the principles of economic course or AP history as well as Algebra I and Algebra II*

This course is reserved for students who have demonstrated superior performance in social studies coursework and proven themselves to be proficient in algebraic concepts. This is an intensive course that provides students with a thorough understanding of the principles of economics that apply to an economic system as a whole. Emphasis is placed on the study of nation income, and current issues related to macroeconomic.

**World Language****4601, 5601 French I****4611, 5611 Italian I****4631, 5631 Spanish I**

NCAA 5.0 Credits

WL

The four language skills-listening, speaking, reading and writing-are introduced. Emphasis is placed upon listening and speaking through dialogues and conversations pertaining to daily life. Vocabulary and grammatical structures are taught. Communication and correct pronunciation are emphasized. Students will also be introduced to the culture of the people whose language is being studied.

**5602 French II****5612 Italian II****5632 Spanish II**

NCAA 5.0 Credits

WL

Level II offers the student the opportunity to further develop mastery of the basic skills-listening, reading, comprehension, speaking and writing. Level I vocabulary is expanded through thematic units (e.g. travel, sports, family). The target language is primarily used in the class. Students acquire a greater flexibility in expressing themselves and improve their comprehension skills through varied activities.

**5603 French III****5613 Italian III****5633 Spanish III**

NCAA 5.0 Credits

WL

These courses combine vocabulary, grammar, reading and conversation. The material acquired in Level I and II is reviewed and the study of vocabulary and grammar continued. Varied supplemental options such as newspapers, magazines and media further develop listening and speaking skills, as well as cultural awareness.

**5604 French IV Honors****5614 Italian IV Honors****5634 Spanish IV Honors**

NCAA 5.0 Credits

WL

The level IV courses stress a mastery of all the language skills. A general grammar review is included in order to increase the student's proficiency in the language. The students are encouraged to express themselves without difficulty in spoken and written forms. Selections of literature are studied and students are assigned specific projects pertaining to the culture and history.

**5605 French V Honors****5615 Italian V Honors****5635 Spanish V Honors**

NCAA 5.0 Credits

WL

The level V course continues to stress a mastery of all the language skills. A review of grammar is provided as needed to increase the student's oral and written proficiency in the language. Selections of literature and periods of history are studied. Students are assigned specific projects pertaining to the culture, literature, and history of the countries. The course is conducted in the target language.

**5639 Spanish for Heritage Speakers**  
NCAA 5.0 Credits WL

Spanish for Heritage Speakers offers Spanish-speaking students opportunities to study formally in an academic setting in the same way the native-English-speaking students study English language arts. These may include a desire to reactivate the Spanish they have learned in the past and develop it in the future, to learn more about their language

and cultural heritage, to acquire skills in Spanish, to develop or augment academic language skills in Spanish, to enhance career opportunities, or to fulfill a foreign language requirement. The skills that students can learning how to critically analyze a text, write poetry, or acquire new information in different academic content areas. Activities will include taking notes, participation in question/answer and discussion sessions, library research, oral and written reports, and structured grammar activities when appropriate.

**Physical Education**

The Health and Physical Education courses are required in Grade 9, 10, 11 and 12. In grades 9, 10, 11 and 12, students take three marking periods of physical education and one marking period of Health Education.

A variety of physical education activities are used to introduce skills transferable between certain activities. Each activity has goals of physical fitness, skill development and knowledge. Included, but not limited to, are the following activities; soccer, speedball, floor hockey, field hockey, weight training, softball, tennis, volleyball, track and field, flag football, aerobics, lacrosse, floor hockey, pickle ball, badminton, team handball and basketball.

**4511 Grade 9 Health**

5.0 Credits PE

Health topics include nutrition and exercise, alcohol and drugs, communicable diseases, HIV/AIDS, tobacco and family life education.

**5521 Grade 10 Health/Drivers Ed**

5.0 Credits PE

Health/Driver's Education Theory is taught using the N.J. Division of Motor Vehicles Driver's Manual, as reference for instruction. Topics include the requirements of the law concerning driver's licenses, motor vehicle registration, traffic control devices, defensive driving, driver problems, emergency driving procedures and a unit on HIV-Aids, Family Life Education.

**5531 Grade 11 First Aid**

5.0 Credits PE

First Aid is taught using the standards set by the American Red Cross. Health topics include: CPR, rescue breathing, sudden illnesses, bleeding wounds, burns, broken bones, weather related injuries, bites, HIV/AIDS, bandaging, splinting and spinal cord injuries.

**5541 Grade 12 Health**

5.0 Credits PE

Health topics include mental health, drugs, cancer, communicable diseases, HIV/AIDS, non-communicable diseases and family life education.

**5551 Adaptive Physical Education (All levels)**

5.0 Credits PE

An adaptive program in physical education is conducted in the high school for assigned handicapped students. Instruction and activities are individualized, based on the activities incorporated in 9-12 grade physical education.

**3560 Teen Pep**

5.0 Credits GE

*Prerequisite: Application, interview, teacher recommendations, mandatory attendance at summer retreat.*

*Restrictions: Grade 12 only*

Teen Pep stands for Teen Prevention Education Program. This course trains the peer educators in leadership and sexual issues such as pregnancy prevention, HIV/AIDS, sexual harassment and homophobia reduction.



## **ELECTIVES**

### **Dance:**

#### **1871 Dance I/II**

5.0 Credits

VPA

Dance I/II is an introduction to the study and development of dance. Jazz, tap, ballet and modern dance techniques will be introduced and reinforced. Techniques in composition will also be discussed and demonstrated. All students will be required to perform in the end of the year recital. Students who feel they are beyond this level may audition for another level of dance.

#### **1873 Dance III**

5.0 Credits

VPA

*Prerequisite: Dance I/II and/or Grade 8 Talented Dance*

Dance III allows students to continue the specialized training given previously. Students concentrate on increasing skill level, technique, flexibility, perfection of style and performance quality. All students will be required to perform in the end of the year recital.

#### **1874 Dance IV**

5.0 Credits

VPA

*Prerequisite: Dance III and/or Grade 8 Talented Dance*

Dance IV allows students to continue extensive techniques and dance proficiency with more difficult dance pieces and/or projects. Special emphasis is placed on performance, style, technique and choreography. All students will be required to perform in the end of the year recital.

#### **5875 Performance Dance**

7.5 Credits

VPA

*Prerequisite: Audition*

This course is a direct continuation of the specialized training given previously in the Middle School and Anastasia School Talented Theme Program. The curriculum will concentrate on technique, style, performance, choreography, jazz, ballet, tap, modern and lyrical dance. Performances during and after school are required as a means of assessment. Students will responsible for missed assignments from other classes. Note: Performance dance will require an audition and interview by the instructor during the spring of the previous year.

### **Band:**

#### **5824 Marching Band/Symphonic Band**

7.5 Credits

VPA

Open to all students in grades 9-12 who have achieved a reasonable proficiency on a band instrument. The band performs for school and community events such as band competitions, football games, pep rallies, parades, and assembly programs, etc. (Students selected must participate in all activities of the band except for students participating in High School sports, who will be exempt from the field show and assessed on an individual basis). Marching Band will be taught during quarter 1. Symphonic Band will be taught during quarters 2, 3, and 4. Out-of-school performances are required as a means of assessment.

#### **5829 Musical Theater**

2.5 Credits

VPA

*Prerequisite: Field Show and Placement Audition*

Membership is limited to the instrumentation of the selected musical in production by the Drama Department. Emphasis of this course will be performance of musical theater, music books and the listening/focus skills required for success. After-school and evening participation will be required of all students.

#### **5827 Jazz Band**

1.5 Credits

VPA

*Prerequisite: Field Show and Placement Audition*

Study of the literature and rehearsal and performance techniques of the past current popular jazz and jazz rock music as it relates to the stage band, with special emphasis on performance, style and improvisation. This is a performance organization for talented and advanced students which require out-of-school performance of all members. Membership is limited to provide balanced instrumentation. This course meets after school one day per week, December through May.

**5830 Chamber Ensemble**

2.5 Credits

VPA

*Prerequisite: Marching Band and Audition*

Small ensembles will be formed, by audition, in November and will meet from December till June. This course will meet after school hours, December through May. Performances and recital participation are a course requirement.

**1822 American Popular Music**

5.0 Credits

VPA

Students will gain an overview of the four major areas of American contemporary music: jazz, rock, country, and musical theater. Each genre is approached chronologically with the emphasis on the socio-cultural aspects of the music. Students will come away with the fundamental skills needed to listen critically to a variety of popular music styles. The course will cover American music from the beginning of the 20<sup>th</sup> century changes in American Music in the new millennium with special attention to cross-genre music, hip-hop, technological developments and the influence of media on popular music.

**1813 Music Theory**

5.0 Credits

VPA

This course is designed to introduce the music student to scales, intervals, chords, triads, and harmonic rhythms. Students are given the opportunity to learn to harmonize a given part of music, as observed in previous musical compositions and by utilizing and understanding harmonic trends through music history. Vocal, instrumental and piano students will find this course very practical. Such musical knowledge is essential not only for those continuing music studies into college but for persons seriously interested in any aspect of music.

**1816 Music Technology**

5.0 Credits

VPA

*Prerequisite: Reasonable Ability on and Instrument or Recording Experience*

This course will utilize technology to understand, create and record music. Students be exposed to engineering and recording and will gain exposure to music software, notation programs, sequencing, marketing, and copyrighting. On-line programs will aid in the students understanding of all basic proficiencies.

**5832 Concert Chorus**

5.0 Credits

VPA

*Prerequisite: Vocal workshop, Gifted and Talented at L.B.M.S or audition*

The Concert Chorus is a select performing chorus. The music learned is of medium to advanced difficulty. Choral singing skills, sight singing, ear training, independence on a part and expressive ensemble performance are the focus of this class. New members are welcome after a successful audition with director.

**5835 Advanced Vocal Performance**

5.0 Credits

VPA

*Prerequisite: Concert Chorus or Audition*

This course is for the serious vocal music student. The focus of this course will be musicianship of the student vocalist through developing a substantial and diversified solo repertoire. Vocal technique, Performance practices, Ear Training, and Sight Singing will be essential elements that will contribute to student success. After school performances will be considered as part of the grade.

**5833 A Cappella Singers**

5.0 Credits

VPA

In addition to learning and performing the concert choir repertoire, these select students will demonstrate extensive technique and vocal proficiency with more difficult choral harmonic pieces. These students meet two afternoons per week from September through May.

**PIANO****1841 Piano I/II**

5.0 Credits

VPA

The Piano I/II class is an introduction to the piano. Prior musical experience is not necessary. During the course of the year, students will learn to read grand staff music notation and apply it while learning the rudiments of the piano keyboard. They will learn how to listen to the critique music. They will receive basic instructions in performance skills and gain poise and confidence through performance practices. The second half of the course is a continuation of the Piano I course. Students will have the opportunity to expand their technical skills and be able to play music at the second level. Students will be required to

**CHORUS**

perform simple pieces, solos and duets, in a piano recital at the end of each semester as their mid term and final exams.

### **5843 Piano III**

### **5844 Piano IV**

5.0 Credits

VPA

*Prerequisite: Piano I/II; Placement Audition; and/or Approval of advisor*

Piano III and IV classes are both full year courses and are designed to allow students the opportunity to further their technical skills as pianists while developing solid practice and performance skills. Students in advanced piano classes will receive both individual as well as group instruction. Students will have the opportunity to perform in various public forums during the school year and will be required to perform at the end of each semester in a piano recital as their mid term and final exams.

## **DRAMA**

### **2854 Stage Technology/2853 Public Speaking**

5.0 Credits

VPA

This course prepares students for public speaking by affording practice in writing, delivering and listening to the different types of speeches. Student's presentation will be followed by group discussion and constructive analysis. Students will explore all aspects of technical theater. Students will learn the basics of sound, lighting, and operation of a fly system. Set construction and design will assist in exposing the student to various career pathways that are possible in the theater. After school and evening performances, centered around the spring production, may be required as part of the grade for this course.

### **1851 Speech and Theater**

5.0 Credits

VPA

A survey of the theater arts such as mime, movement, stage geography, acting and technical theater will be included. This course provides a firm foundation for the advanced courses in grade 10, 11, and 12. First year students in speech and theater should enroll in this class.

### **1865 Advanced Performance**

7.5 Credits

VPA

*Prerequisite: Two previous Speech/Theater Courses*

This course for talented speech and drama students continues the specialized training given previously. Units include rehearsal techniques, acting, and analyzing the classics. This course will integrate music and dance with acting so that the interested students could study the Musical Theater as well. Westwood Players will find this course very practical.

## **ART**

### **1801 Art I**

5.0 Credits

VPA

This is the basic art class and encompasses a broad scope of fine arts. Main areas of study will include: sketching, drawing, color, painting, ceramics, sculpture, poster making and lettering. This class will be a prerequisite for all art classes.

### **1802 Art II**

5.0 Credits

VPA

*Prerequisite: Art I*

This is a continuation and expansion of the basic skills of drawing, painting and ceramics/sculpture. The introduction of design and composition along with such projects as fashion design, package design, architectural design, interior design and advertising design are stressed.

### **1803 Art III**

5.0 Credits

VPA

*Prerequisite: Art II and/or recommendation of instructor*

This advanced art class develops the skills of the talented student/artist. New Medias and long-term projects are covered in drawing, painting, sculpture/ceramics and design. Interested students may develop a portfolio for art school admission

### **1804 Art IV/Portfolio Art**

5.0 Credits

VPA

*Prerequisite: Art III and/or recommendation of instructor*

This course will be divided into two disciplines: Graphic Arts and Fine and Applied Arts. Graphic Arts will focus on the use of the computer and its application to the principles of design, drawing skills, and the understanding of the concepts of art. Fine and Applied Arts will focus on a studio environment and artistic endeavors will be individualized with students proposing projects and using the principles of Art History and research to produce high quality work.

### **1805 Graphic Design**

5.0 Credits

CCS

This course focuses on using and understanding state-of-the-art-technology. Students will leave with a broad knowledge and understanding of the major Graphic Design computer applications. The students will consider visual

exploration, focus on problem solving and experience what it is like to be immersed in a Graphic Design career and gain an awareness of the historical and current issues in the design world.

### **1805 Graphic Design**

5.0 Credits

CCS

*Prerequisite: Graphic Design I or a previous art class with teacher approval*

This course covers the key components of Graphic Design, including its origins and traditional hand application. A range of topics will be covered, including hand lettering, typography, cutting, binding, construction, digital photography, basic lighting techniques, digital image manipulation, retouching, layout, printing process, and beyond. Students will use Adobe design programs to expand on these topics, and it is through the development of these areas, that individuals will further learn the art of presentation by constructing individual portfolios. Assignments will fuse imagery and typography into promotional material, logotypes, poster and page layouts, greeting cards, album layouts, product graphics, packaging design and more. Furthermore, learners will be responsible for meeting design deadlines, in accordance with industry standard.

### **TV & Film Production**

#### **3781 TV Studio Production I**

5.0 Credits

VPA

This course will introduce students to the fundamentals of television & film production. Students will develop skills in video/audio editing, computer graphics, lighting, DVD production, camera operations, news writing and scriptwriting for film. Students will also demonstrate basic knowledge of the terminology, history and career opportunities in digital media. Students must work diligently to produce professional quality media, respond quickly to meet project deadlines and demonstrate flexibility on production teams. All students will be required to participate in all phases of student productions during and after school.

#### **3784 TV Studio Production II**

5.0 Credits

VPA

*Prerequisite: TV Studio Production*

This is an intermediate course for students to go beyond the basics of television & film production. Students will continue to strengthen their skills in video/audio editing, computer graphics, lighting, DVD production, camera operations, news writing and script writing for film. Students will also apply immediate editing skills using the Final Cut Pro Suite and begin to develop leadership roles as directors and producers for projects. All students will be required to participate in all phases of student productions during and after school hours.

#### **3783 TV Studio Production III**

5.0 Credits

VPA

*Prerequisite: TV Studio Production II*

This is an advanced course for students who have successfully completed intermediate levels of the television & film production. Students will master their skills in video/audio editing, computer graphics, lighting, DVD production, camera operations, news writing and scriptwriting for film. Students will also apply advanced editing skills using the Final Cut Pro Suite. All students will be given a leadership role for TV or film directing, scriptwriting, video editing, music/audio editing, cinematography or computer graphics, while mentoring students in TV & Film Production I & II. Level III students will also be required to make a feature length movie for contests and film festivals. All students will be required to participate in all phases of student productions during and after school hours.

#### **3785 TV Studio Production Internship**

2.5 Credits

VPA

*Prerequisite: TV Studio Production III*

This is a mastery level course for students who have successfully completed advanced levels of television and film production. Students will continue to master their skills in video/audio editing, computer graphics, lighting, DVD production, camera operations, news writing and scriptwriting for film. Students will also apply advanced editing skills using the Final Cut Pro Suite. All must direct their own projects from start to finish along with mentoring students in TV & Film Production I, II & III. Students will also be required to make movies or videos for contests and film festivals. All students will be required to participate in all phases of student productions during and after school hours.

### **BUSINESS**

#### **2718 Introduction to Web Design**

5.0 Credits

CCS

Students will become familiar with the principles of effective page design as they relate to the Web. Students will gain knowledge of Web page layout techniques. As well as the introduction to developing artwork for the computer animation using Flash. By the end of this class students will have created a fully functional Web site.

## **2728 Small Business Management & Entrepreneurship**

5.0 Credits

CCS

This course revolves around the operation of a functioning school store. Students will learn how to run a successful school based enterprise as well as the skills and attributes required for any job. Students will learn aspects of accounting, finance, marketing, advertising, management, inventory control and e-commerce. Business plan is developed, web design and purchasing.

## **2714 Marketing**

5.0 Credits

CCS

This course is designed primarily for juniors and seniors. This course provides an introduction to the history of American business, economic systems, marketing, activities, the stock market and computerized business activities. This course is of interest to any student who plans to study any of the following areas: business management, marketing, sales and sales management, advertising, labor relations, transportation and finance.

## **2715 Business Law**

5.0 Credits

CCS

This course is designed for students who are interested in using Business Law in their everyday life. Some of the topics to be covered are: American justice system, law and legal problems, contracts and bailment's, buyers and sellers, debtors and creditors, etc. This course is a very good preparation for the student interested in law, business, marketing, consumerism and political science as a career goal.

## **2740 Accounting**

5.0 Credits

CCS

Students will be introduced to the double entry bookkeeping system for a single proprietorship, partnership and corporate forms of business. The activities will include journalizing business transactions, posting journal entries to a ledger account and preparing various reports and statements and managing cash control systems. An accounting simulation package will be utilized to give students a realistic approach to problem-solving.

## **2741 Advanced Accounting**

5.0 Credits

CCS

*Prerequisite: Accounting I*

This course enables students to apply previously learned skills in Accounting I. This program will be geared to the students who are seriously thinking about Accounting or Business Management as a college major. Emphasis will be placed on individual instruction to enable students to work as if they were in a college accounting program. An accounting

simulation package will be utilized to give students the microcomputer approach to the accounting cycle.

## **2722 Cooperative Marketing Education (CME)**

15.0 Credits

CCS

This course is a cooperative learning experience that combines work experience and a related class.

Students will be employed in marketing businesses such as grocery stores, retail stores, restaurants, hotels and motels. In addition, a daily class period will be devoted to instruction and consultation regarding problems experienced on the job, human relation skills and job skills such as interviewing and completing applications.

## **CONSUMER SCIENCE**

### **3741 Foods for Healthier Living I**

5.0 Credits

CCS

Students will learn basic principals of nutrition, food preparation and consumer education skills. They will learn to prepare attractive meals with attention to kitchen organization, sanitation and workplace readiness skills.

### **3743 Foods for Healthier Living II**

5.0 Credits

CCS

*Prerequisite: Foods for Healthier Living I*

Sports nutrition, food science and careers in the food service industry will be the main focus of the course. Recipe preparation and experiments with food that is economical and nutritious will be continued from the foundation acquired in Foods I.

### **6742 International Foods**

5.0 Credits

CCS

*Prerequisite: Foods I and Teacher Recommendation*

Since food is a multicultural icebreaker, this class allows students to take their taste buds on a trip around the world. An understanding and respect for cultural differences is fostered when students explore food customs, and prepare cuisine from a variety of countries and regions in the United States.

### **2751 Early Childhood Development**

5.0 Credits

CCS

Did you know that you can learn a lot about a child by watching them play? This class

studies the developmental stages during pregnancy, prenatal care, labor, and delivery. Then the development of a child is explored by concentrating on the physical, mental, emotional and social growth. Part of the course requirement is participation in the baby simulator project. Guest speakers, computer research, films and a class trip are also used to reinforce the understanding of the development of children examine good parenting skills.

### **1731 Creative Sewing**

5.0 Credits

CCS

Learn how to sew, knit, crochet, embroider, crewel, needle point, make stuffed animals or quilt. Through the selection of teacher approved projects, a student is able to sample them all.

### **1791 Technology through Computer Simulation**

5.0 Credits

CCS

This course consists of integrated instructional modules involving 12 different technologies. Each module permits students to explore the technology through reading and application of theories. Students move through the various modules at their individual pace.

### **3792 DigiAc AEP**

5.0 Credits

CCS

This course will cover the following topics: electronic systems, DC circuits, electromagnetism, diodes and transistors, amplifier circuits, and digital electronics.

## **ROTC**

### **ROTC1 Citizenship, Character and Air Force Tradition I**

5.0 Credits

CCS

Introduces the student to the mission of Air Force Junior ROTC, its organization and philosophies. Students learn customs and courtesies associated with classroom activities, the United States flag, and the wear of the Air Force Junior ROTC uniform, to include attitude and discipline expectations. Students will also receive instruction in study habits and time management, drug and alcohol abuse, sexual harassment and first aid.

### **ROTC2 Aerospace 1 (AS-1)– A Journey into Aviation History**

5.0 Credits

CCS

The purpose of this aviation history course is to focus on the development of flight throughout the centuries. It starts with ancient civilizations, then progresses through time to modern day. The emphasis is on civilian and military contributions to aviation; the development, modernization, and transformation of the Air Force; and a brief astronomical and space exploration history.

### **ROTC3 Leadership II (LE-II) - Communication, Awareness, and Leadership**

Credits 5.0

CCS

Introduces students to effective communication skills necessary to assume positions of responsibility in the cadet group. Effective writing, speaking, and listening skills are emphasized. Students also develop an understanding of individual and group behavior, to include exercises in motivation, defense mechanisms, and individual responsibility. This course will present basic leadership concepts and principles, situational leadership activities, and techniques for effective teamwork.

## **ELECTIVE**

### **4801, 4802, 4803 Freshman Orientation/Personal Economics**

Credits 5.0

FEBE

Students learn about personal economics and finance in a virtual neighborhood setting. Topics include: spending and borrowing decisions, insurance and other financial services. In addition students will learn about career choices and opportunities and character education.

### **Project Lead the Way (Pathway to Engineering)**

Project Lead the Way (PLTW) offers a dynamic high school program that provides students with real-world learning and hands-on experience. Students interested in engineering, biomechanics, aeronautics, and other applied math and science arenas will discover PLTW is an exciting portal into these industries. PLTW's premier high school program, Pathway to Engineering, is a four-year course of study integrated into the students' core curriculum. The combination of traditional math and science courses with innovative Pathway of Engineering courses prepares students for college majors in engineering and E/T fields.

#### **3348 Principles of Engineering Design**

NCAA 5.0 Credits

CCS

*Prerequisite: STEM Academy. A grade of 75 or above in Science and Mathematic courses.*

Students explore technology systems and engineering processes to find out how math, science and technology help people design software to design and document solutions for major course projects. Students communicate and present solutions to their peers and members of the professional community of engineers and architects. This course is designed for 11<sup>th</sup> and 12<sup>th</sup> grade students.

#### **3350 Civil Engineering and Architecture**

5.0 Credits

CCS

*Prerequisite: STEM Academy. A grade of 75 or above in Science and Mathematic courses.*

Students learn about various aspects of civil engineering and architecture and apply their knowledge to the design and development of residential and commercial properties and structures. In addition, students use 3D

#### **3349 Introduction to Engineering Design**

5.0 Credits

CCS

*Prerequisite: STEM Academy. A grade of 75 or above in Science and Mathematic courses.*

Using 3D computer modeling software, students learn the design process and solve design problems for which they develop, analyze, and create product models.

### **ESL/Bilingual**

#### **5156 English 12 Bilingual**

5.0 Credits

ENG

This English course consists of the study of British literary movements and masterpieces. Writing skill development will emphasize composition practice and grammar review related to academic and career goals. This course provides for the language needs of non-English and English Language Learners.

#### **5154 English 11 Bilingual**

5.0 Credits

ENG

The English course consists of detailed study of great American literature and extension of writing skill development with emphasis on exposition. A test preparation unit is taught to students who will take college entrance examinations. This course provides for the language needs of non-English and English Language Learners.

#### **5152 English 10 Bilingual**

5.0 Credits

ENG

This English course consists of literary types, namely the short story, novel, poetry, drama, essay, and biography. Writing skill development emphasizes general grammar, good sentence and unified paragraphs. A job entry basic skills unit is taught in each instructional level. This course provides for the language needs of non-English and English Language Learners.

#### **5150 English 9 Bilingual**

5.0 Credits

ENG

This English course consists of literature, composition, and grammar. Students complete brief units in mythology, Shakespeare, and various literary forms. Literary studies are related to writing development by the practical application of grammar to effective written expression. This course provides for the language needs

of non-English and English Language Learners.

**5190 ESL I**

5.0 Credits ENG

Requires placement level 1.0 or 2.5 on the state mandated test ACCESS (Language Proficiency).

**5191 ESL II**

5.0 Credits ENG

Requires placement level 2.7 or 3.0 on the state mandated test ACCESS (Language Proficiency).

**5192 ESL III**

5.0 Credits ENG

Requires placement level 3.5 or 4.0 on the state mandated test ACCESS (Language Proficiency).

**5955 ESL Tutorial/Independent Study**

5.0 Credits ENG

This course provides for the individualized needs for the ELL students incorporating all skills necessary for transition into the mainstream. Students may work on special projects individually and in small groups. This course provides an opportunity to sort, synthesize, analyze and interpret information, concepts, and ideas received during the school day.

**5188 Port of Entry Math**

**5189 Port of Entry LAL**

5.0 Credits MA/ENG

This class will be provided for new entrants who are sixteen years of age and older who lack formal education or have been out of school for one or two years. Students will be scheduled into a self-contained class for two periods a day with an ELL/Bilingual teacher and a Bilingual Instructional Assistant. Students can exit the Port of Entry class after one full year in the program. Each period consists of one of the following courses English as a Second Language, and ESL Language Arts.

**5253 Algebra I**

**5251 Algebra II**

**5252 Geometry**

5.0 Credits MA

These comprehensive developmental math courses are intended for English Language Learners (ELL) students of all high school grade levels. Math instructions cover the same curriculum content of the department courses, such as Algebra I, Algebra II, and Geometry. The type of individual and/or group instruction depends on the student's ability levels. An adapted form of the math curriculum for each course mentioned above is used for the courses. These courses provide for the language needs of ELL students.

**5851 Speech for ESL I**

**5852 Speech for ESL II**

5.0 Credits GE

This speech course is designed for students whose native language is not English. It provides oral experience and speech activities designed to facilitate the correct use of the English language in everyday situations. The second half of this course prepares students for public speaking by affording practice in writing, delivering, and listening to the different types of speeches. Student presentation will be followed by group discussion and constructive analysis.

**5199 Creative Writing**

5.0 Credits VPA

This creative writing course is designed for students whose native language is not English. It provides written experience and writing skills activities designed to facilitate the correct use of the English language in everyday situations. It will provide significant background in all four writing genres-essay, fiction, poetry, and drama.

**5451 ESL World History/Cultures**

5.0 Credits HIS

World History/Cultures is the study of the interrelationships of individuals, societies, and cultures which help students understand the issues and problems in our world. This course parallels the district World History/Cultures course and provides for the language needs of non-English and English Language Learners.



## **Elective Options for Grades 10, 11, 12 - 2012-2013**

**Electives are chosen by student, parent/guardian and counselor**

### **BUSINESS – Fulfills CCS requirement**

2740 Accounting (5 Credits)  
2721 Advanced Accounting (5 Credits)  
2715 Business Law (5 Credits)  
2728 Small Business Management & Entrepreneurship (5 Credits)  
2722 Cooperative Marketing Ed (15 Credits)  
2718 Intro to Web Design (5 Credits)  
2714 Marketing (5 Credits)

### **CONSUMER SCIENCE**

#### **Fulfills CCS requirement**

1731 Creative Sewing (5 Credits)  
2751 Early Childhood Development (5 Credits)  
3741 Foods for Healthy Living I (5 Credits)  
3743 Foods for Healthy Living II (5 Credits)  
6742 International Foods (5 Credits)

### **MUSIC EDUCATION – Fulfills VPA requirement**

5824 Marching/Symphonic Band (7.5 Credits)  
1813 Music Theory (5 Credits)  
1822 American Popular Music (5 Credits)  
1816 Music Technology (5 Credits)  
5832 Concert Chorus (5 Credits)  
5835 Advanced Vocal Performance (5 Credits)  
1841 Piano I-II (5 Credits)  
5843 Piano III (5 Credits)  
5844 Piano IV (5 Credits)

### **PLTW – Fulfills CCS requirement**

3349 Introduction to Engineering Design (5 Credits)  
3348 Principles of Engineering Design (5 Credits)  
3350 Civil Engineering and Architecture (5 Credits)

### **TECHNOLOGY**

#### **Fulfills CCS requirement**

1805 Graphic Design (5 Credits)  
1806 Graphic Design II (5 Credits)  
3792 DigiAc AEP (5 Credits)  
1791 Technology through Computer Simulation (5 Credits)

#### **Fulfills VPA requirement**

3781 TV Studio Production I (5 Credits)  
3784 TV Studio Production II (5 Credits)  
3783 TV Studio Production III (5 Credits)  
3785 TV Studio Production Internship (2.5 Credits)

### **VISUAL & PERFORMING ARTS**

#### **Fulfills VPA requirement**

1865 Advanced Performance (7.5 Credits)  
1851 Speech & Theater (5 Credits)  
2853 Stage Technology (2.5 Credits)  
2854 Public Speaking (2.5 Credits)  
1801 Art I (5 Credits)  
1802 Art II (5 Credits)  
1803 Art III (5 Credits)  
1804 Art IV/Portfolio Art (7.5 Credits)  
1871 Dance I/II (5 Credits)  
1873 Dance III (5 Credits)  
1874 Dance IV (5 Credits)  
5875 Performance Dance (7.5 Credits)

### **ROTC**

#### **Fulfills CCS requirement**

ROTC1 Citizenship, Character and Air Force Tradition 1(5 Credits)  
ROTC2 A Journey into Aviation History (5 Credits)  
ROTC3 Communication, Awareness, and Leadership (5 Credits)

### **WORLD LANGUAGE – Fulfills WL requirement**

5611 Italian I (5 Credits)  
5612 Italian II (5 Credits)  
5613 Italian III (5 Credits)  
5614 Italian IV (5 Credits)  
5615 Italian V (5 Credits)  
5631 Spanish I (5 Credits)  
5632 Spanish II (5 Credits)  
5633 Spanish III (5 Credits)  
5634 Spanish IV (5 Credits)  
5635 Spanish V (5 Credits)  
5639 Spanish for Heritage Speakers (5 Credits)  
5601 French I (5 Credits)  
5602 French II (5 Credits)  
5603 French III (5 Credits)  
5604 French IV (5 Credits)  
5605 French V (5 Credits)

### **Academic Electives**

#### **HISTORY**

1933 African American History (5 Credits)  
1935 US History III (5 Credits)  
2936 World Geography (5 Credits)  
5450 AP American/Government Politics (5 Credits)  
5440 AP World History (5 Credits)  
5436 AP Macro-Economics (5 Credits)  
**Fulfills CCS Requirement**  
2938 Criminal Justice (5 Credits)  
2933 Economics (2.5 Credits)  
2937 Law (2.5 Credits)  
2932 Psychology (2.5 Credits)  
2931 Sociology (2.5 Credits)  
5435 AP Psychology (5 Credits)

### **LANGUAGE ARTS LITERACY**

#### **Fulfills CCS Requirement**

1907 Journalism (5 Credits)

#### **Fulfills VPA Requirement**

1909 Creative Writing (5 Credits)  
1918 Creative Writing II (5 Credits)

#### **Fulfills GE Requirement**

2145 Race, Gender & Ethnicity (5 Credits)  
9660 SAT English (2.5 Credits)  
2823 Mythology (5 Credits)  
1922 Shakespeare (5 Credits)  
1905 Yearbook (5 Credits)

### **MATH**

#### **Fulfills GE Requirement**

1247 Contemporary Math (5 Credits)  
9658 SAT Math (2.5 Credits)  
5248 Statistics (5 Credits)  
5240 AP Calculus (5 Credits)

### **SCIENCE**

3346 Environmental Science (5 Credits)  
3345 Forensic Chemistry (5 Credits)  
3347 Comparative Anatomy (5 Credits)  
5360 AP Chemistry (5 Credits)  
5350 AP Biology (5 Credits)  
5340 AP Physics (5 Credits)

## FOUR-YEAR PLAN WORKSHEET

**STUDENT NAME:**

**COUNSELOR:**

Subject Area	Credits Needed	Grade 9	Grade 10	Grade 11	Grade 12
English	20				
History	15				
Science	15				
Mathematics	15				
World Language	5				
Physical Education	20				
Career Education & Consumer Science (CCS)	5				
Visual & Performing Arts (VPA)	5				
Financial Literacy (FL) (Beginning with the class of 2014)	2.5				
Electives					
Total Credits Needed to Pass	120	27.5 to enter 10 <sup>th</sup> grade	55 to enter 11 <sup>th</sup> grade	85 to enter 12 <sup>th</sup> grade	120 to graduate
Total Scheduled					