

LONG BRANCH PUBLIC SCHOOLS



HIGH SCHOOL PROGRAM OF STUDIES

2014-15

SCHOOL OF LEADERSHIP

SCHOOL OF SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

SCHOOL OF VISUAL AND PERFORMING ARTS

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Program of Studies

Table of Contents



General Information			Course Work	
Academy Information	4		Electives	18-23
Dropping/Adding Courses	6		ESL/Bilingual	25-27
Four Year Plan Worksheet	29		English	9-10
Grading Information	7		History	14-15
Graduation Requirements	6		Math	12-13
Honor Roll	8		Physical Education	17
Program Information	5		Project Lead the Way	23-24
			ROTC	24-25
			Science	10-12
			World Language	16-17

LONG BRANCH PUBLIC SCHOOLS

Long Branch, New Jersey

Where Children Matter Most

2014

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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 21st 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 Psychology	AP Spanish
AP U.S. History II	AP Calculus	AP Chemistry
AP World History	AP Macro-economics	AP Physics
AP American Government	AP Biology	AP Human Geography

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 2014-15 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
Physical Education (PE)	At least five (5) credits for each year of enrollment
General Electives (GE)	No minimum required

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

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. Human Geography	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
					A.P. Spanish

Mathematics

Algebra I	Algebra II	Geometry	Pre-Calculus	AP Calculus
Statistics				

Engineering

Intro to Engineering	Principles of Engineering	Civil Engineering/Architecture	Biotechnical Engineering	

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	WF	Withdrawal Fail
		WP	Withdrawal Pass

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. Marissa Fornicola
Mr. Alvin L. Freeman

ENGLISH

4120 English 9 Honors

NCAA 5.0 Credits ENG

Prerequisite: English grade gifted class and/or teacher recommendation

This English survey course is an intense approach to the literature, writing and grammar requirements of the English 9 program.

4111, 4121, 4131 English 9

NCAA 5.0 Credits ENG

This English survey course consists of literature, composition and grammar. Students complete units in mythology, Shakespeare and various literary forms. Writing skill development emphasizes general grammar, varied sentences and unified paragraphs.

1120, 2120, 3120 English 10 Honors

NCAA 5.0 Credits ENG

Prerequisite: A grade of 93 or above in the previous English 9(Honors). A proficient score in the most recently taken standardized test (NJ Pass) and teacher recommendation.

This English survey course is an intense approach to the literature, writing and grammar requirements of the basic grade 10 program.

1121, 2121, 3121 English 10

NCAA 5.0 Credits ENG

This English survey course consists of literary types, namely the short story, novel, poetry, drama, essay and biography. Writing skill development emphasizes general grammar, varied sentences and unified paragraphs.

1130, 2130, 3130 English 11 Honors

NCAA 5.0 Credits ENG

Prerequisite: A grade of 93 or above in the previous English 10 (Honors). A proficient score in the most recently taken standardized test (NJPASS) and teacher recommendation.

This course is an intense approach to American Literature, writing and the grammar requirements of the English 11 program.

1131, 2131, 3131 English 11

NCAA 5.0 Credits ENG

This English course consists of a detailed study of great American Literature and extension of writing skill development with emphasis on exposition.

5140 Advanced Placement English 12

NCAA 5.0 Credits ENG

Prerequisite: A grade of 93 or above in the previous English 11 (Honors). A proficient score in the most recently taken standardized test (HSPA) and teacher recommendation.

This English course is for students who wish to pursue college level studies while still in secondary school. A.P. students will read critically and reflect on their reading through extensive discussion, writing and rewriting. Students will be prepared to take the A.P. exams.

5130 English 12 Honors

5.0 Credits ENG

This course is an intense approach to World literature where students will read critically and reflect on their reading through extensive discussion and writing.

1141, 2141, 3141 English 12

NCAA 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 with particular attention to academic and career goals.

1909, 4721 Creative Writing I

NCAA 5.0 Credits VPA

This creative writing course is a course of instruction for students who have a genuine interest in the creative writing process. It will provide significant background for all four writing genres – essay, poetry, fiction and drama.

1918 Creative Writing II

NCAA 5.0 Credits VPA

Prerequisite: Successful completing of Creative Writing I

This course is designed to provide advanced instruction for those students interested in furthering the development of their creative writing abilities. It will provide significant background in all genres – essay, poetry, fiction, drama and mythology.

1907 Journalism (Trumpet)

NCAA 5.0 Credits CCS

This course is designed primarily for students who demonstrate proficient writing skills and who are interested in developing the school newspaper, the Trumpet. The course includes the teaching of basic news writing, editing style, symbol use, error detection, and page layout.

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 General Physical Science

NCAA 5.0 Credits

SCI

This course is designed to serve as a foundation for other high school science courses. It will emphasize the basic laws of chemistry and physics. Laboratory and problem solving activities will be utilized to cover the

curriculum. This course will include the following units: Scientific Inquiry, Properties and Classification of Matter, Structure and Properties of Atoms, Chemical Bonding and Reactions, Forces and Motion, Nature, Conservation, and Transfer of Energy, and Nature and Properties of Mechanical and Electromagnetic.

1320, 2320, 3320, 4320 Biology Honors

NCAA 5.0 Credits

SCI

Science Prerequisite: A grade of 86 or above in previous science class and Math Prerequisite: 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. Students explore biological concepts through an inquiry approach. Topics include the study of cell structure and function on a molecular level such as photosynthesis, respiration and protein synthesis. In addition, concepts include biochemistry, cell biology, taxonomy, physiology, genetics, ecology, homeostasis and disease.

1321, 2321, 3321, 4321 Biology

NCAA 5.0 Credits

SCI

*Science Prerequisite: Geophysical
Math Prerequisite: Algebra I or be concurrently enrolled in Algebra I*

This course is designed to introduce students to the diversity and complexity of the living world around them and the interdependence and interrelationship that exists among all living organisms. Students explore biological concepts through an inquiry approach. Concepts studied include biochemistry, cell biology, taxonomy, physiology, genetics, ecology, homeostasis and disease. Connections are made between these biological concepts and student lives

5350 Advanced Placement Biology

NCAA 6.0 Credits

SCI

*Science Prerequisite: Biology, Chemistry, Physics or concurrently enrolled in Physics.
Math Prerequisite: Algebra II or Statistics, a student can be concurrently enrolled in Algebra II or Statistics*

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

Science Prerequisite: Algebra I, Biology or Biology Honors Math Prerequisite: Geometry or concurrently enrolled in Geometry

Chemistry is a course based on regular laboratory investigations of matter, chemical reactions, and the role of energy in those reactions. Students in Chemistry compare, contrast, and synthesize useful models of the structure and properties of matter and the mechanisms of its interactions. In addition, students enrolled in this course are expected to: gain an understanding of the history of chemistry, explore the uses of chemistry in various careers, investigate chemical equations and problems related to personal needs and societal issues, and learn and practice laboratory safety.

1331, 2331, 3331 Chemistry

NCAA 5.0 Credits SCI

Science Prerequisite: Biology or Biology Honors Math Prerequisite: Geometry or concurrently enrolled in Geometry

Chemistry is a course based on regular laboratory investigations of matter, chemical reactions, and the role of energy in those reactions. Students in Chemistry compare, contrast, and synthesize useful models of the structure and properties of matter and the mechanisms of its interactions. In addition, students enrolled in this course are expected to: gain an understanding of the history of chemistry, explore the uses of chemistry in various careers, investigate chemical equations and problems related to personal needs and societal issues, and learn and practice laboratory safety.

5360 Advanced Placement Chemistry

NCAA 6.0 Credits SCI

Science Prerequisite: Biology Honors or Biology, Chemistry Honors or Chemistry, Physics Math Prerequisite: Algebra II or concurrently enrolled in Algebra II

Advanced Placement Chemistry is a second year of Chemistry that is based upon the College Board Curriculum Guide for College Level Chemistry. The AP Chemistry course is to provide students with a solid foundation in modern chemistry. Fundamental principles and concepts are presented with an emphasis on rigorous mathematical treatment of quantitative data taken from extensive laboratory work. Students are introduced to sophisticated equipment used in basic analytical work. 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

Science Prerequisite: Chemistry or Chemistry Honors Math Prerequisite: Algebra II or Statistics, a student can be concurrently enrolled in Algebra II or Statistics

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

Science Prerequisite: Chemistry or Chemistry Honors Math Prerequisite: Algebra II or concurrently enrolled in Algebra II

This is a college preparatory course in physics. Physics is the study of forces and energy and their effect upon matter. The student will have an opportunity to explore the field of linear and curved motion; light and optics and electricity and magnetism. Extensive laboratory work will develop measuring techniques and the ability to interpret physical phenomena. Because the science of physics underlies and is closely related to all other branches of science, the course will prove to be of considerable value to the college bound student.

5340 Advanced Placement Physics

NCAA 6.0 Credits SCI

Science Prerequisite: Physics or Physics Honor Math Prerequisite: Pre-Calculus or concurrently enrolled in Pre Calculus

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 chemistry. Some of the sciences that are used during a crime scene investigation may include physics, chemistry, biology, psychology, and criminal justice. Students will use scientific techniques in the above disciplines to solve laboratory case studies

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

4220 Algebra I Honors

NCAA 5.0 Credits MA

Prerequisite: Algebra readiness assessment score, Score of Proficient or better on the most recently taken standardized test (NJASK) and teacher recommendation.

This course is an intense approach to the requirements of the Algebra I program designed for the advanced student.

4211, 4221, 4231 Algebra I

NCAA 5.0 Credits MA

This course will build the comprehensive mathematical knowledge base that students will use as they move on to higher-level mathematics. Lessons provided will meet the Common Core State Standards for High School Algebra using an investigative approach. Appropriate technology will be used on all lessons including but not limited a graphing calculator.

9972 Algebra I Lab

NCAA 5.0 Credits GE

This course is specifically designed for those students who are enrolled in Algebra I and have been identified through standardized test scores, prior academic history and teacher recommendation as needing additional mathematics instruction. An inquiry based approach to the foundations of algebra that is enriched with foundational and supplemental activities designed to enhance the Algebra I experience is used.

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 an intense approach to the requirements of the Geometry program designed for the advanced student

1221, 2221, 3221 Geometry

NCAA 5.0 Credits MA

This course is designed to stimulate and develop clear, logical, creative thinking through the study of the basic structure of geometry, geometric relationships, and formal deductive proofs. Through an investigative approach students will complete the course with a clear understanding of the key concepts in geometry as described by the Common Core Standards for High School Geometry. Appropriate technology will be used on all lessons including but not limited to Geometers Sketchpad.

9984 Geometry Lab

NCAA 5.0 Credits GE

This course is specifically designed for those students who are enrolled in Geometry and have been identified through standardized test scores, prior academic history and teacher recommendation as needing additional mathematics instruction. An inquiry based approach to the foundations of high school mathematics that is enriched with foundational and supplemental activities designed to enhance the Geometry experience is used.

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.

This course is a rigorous and challenging course designed for the student of exceptional mathematical ability.

1231, 2231, 3231 Algebra II

NCAA 5.0 Credits

MA

This course extends the processes of algebra introduced in Algebra I and uses the geometric concepts of Geometry to produce a more meaningful, in-depth approach to new topics in algebra. The primary goal of this course is for students to gain an understanding of high level algebraic concepts and apply them to real life situations through discovery and investigation. Appropriate technology will be used on all lessons including but not limited to graphing calculators.

9985 Algebra II Lab

NCAA 5.0 Credits

GE

This course is specifically designed for those students who are enrolled in Algebra II and have been identified through standardized test scores, prior academic history and teacher recommendation as needing additional mathematics instruction. An inquiry based approach to the foundations of high school mathematics that is enriched with foundational and supplemental activities designed to enhance the Algebra II experience is used.

5230 Precalculus Honors

NCAA 5.0 Credits

MA

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

This is a rigorous and challenging course designed for the student of exceptional mathematic ability and leading ultimately to the study of calculus. This course makes extensive use of the graphing calculator.

5241 Precalculus

NCAA 5.0 Credits

MA

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

This course is designed to provide a basic course in trigonometry and a sufficient background in college algebra and analytic geometry to prepare students for the study of calculus. Students will be exposed to the use of the graphing calculator while being challenged with critical thinking.

5240 Advanced Placement Calculus

NCAA 5.0 Credits

MA

Prerequisite: A grade of 84 or above in Precalculus.

This is a rigorous and challenging course designed for the student of exceptional mathematic ability and needing a strong background in mathematics for future academic work at the college level. Students in this class are required to take the Advanced

Placement Examination in the spring. This course makes extensive use of the graphing calculator.

1247 Contemporary Mathematics

NCAA 5.0 Credits

MA

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

This course includes topics in modern mathematics such as set theory, Venn Diagrams, probability, logic, statistics and voting procedures. The topics in this course will require critical thinking and analysis including information and experiences that will help students appreciate and value the role of mathematics in modern society.

5248 Statistics

NCAA 5.0 Credits

MA

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

This is an elective course for those who have successfully completed Algebra II. It is designed for those students interested in pursuing a career in business, marketing, psychology, mathematics or any field requiring data analysis. The graphing calculator is used extensively in this course.

5250 Honors Statistics

5.0 Credits

MA

Prerequisite: Completion of Algebra I, Geometry and Algebra II. A grade of 84 or above in Algebra II, a score of proficient or better in the most recently taken standardized test and teacher recommendation.

This is a rigorous and challenging elective course for those who have successfully completed Algebra II. It is designed for the student of exceptional mathematical ability that is interested in pursuing a career in business, marketing, psychology, mathematics or any field requiring data analysis. The graphing calculator is used extensively in this course.

9658 SAT Math

2.5 Credits

MA

This semester course is an elective for students who desire to improve their SAT mathematics scores. Students in SAT mathematics will develop reasoning skills and a conceptual knowledge base needed for success on the SAT examination. Test-taking strategies and techniques will also be discussed. Throughout the semester simulated 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 21st 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

NCAA 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.

5550 AP Human Geography

5.0 Credits

GEN

The purpose of the AP Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice and develop skills that enable them to: use and think about maps and spatial data, understand and interpret the implications of associations among phenomena in places, recognize and interpret at different scales the relationships among patterns and processes, define regions and evaluate the regionalization process, characterize and analyze changing interconnections among places.

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.

5636 AP Spanish Language and Culture
5.0 Credits WL

The AP Spanish Language and Culture course is intended for students who wish to develop proficiency and integrate their language skills, using authentic materials and sources. Students who enroll should already have a basic knowledge of the language and cultures of Spanish-speaking people and must have already successfully completed at least three levels of Spanish as well obtained a teacher's recommendation. The AP Spanish Language and Culture Exam itself will assess students' proficiencies in the Interpersonal, Interpretive, and Presentational modes of communication. The exam is 3 hours long and includes both a 95 minute multiple-choice section and an 85 minute free-response section. The multiple choice section accounts for half of the student's exam grade, and the free-response section for the other half. The AP Spanish Language course will help prepare students to demonstrate their level of Spanish proficiency across three communicative modes (Interpersonal [interactive communication]), Interpretive [receptive communication], and Presentational [productive communication]), and the five goal areas outlined in the *Standards for Foreign Language Learning in the 21st Century 1* (Communication, Cultures, Connections, Comparisons, and Communities).

5638/5639 Spanish for Heritage Speakers I/II
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. Students are given an opportunity to learn more about their language and culture 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. In this context students can learn how to critically analyze a text, write poetry, or acquire new information in different academic

content areas. Activities will include review of grammar and syntax based on student need, participation in varied topical conversations, library

research and presentation of written and oral reports.

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. All Health courses grades 9-12 include education in bullying prevention and awareness, dating violence prevention, and suicide prevention.

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 Audition with Instructor

Dance III allows students to continue the specialized training given previously in Dance I/II. 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 I/II and/or Audition with Instructor

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 Dance IV. The curriculum will concentrate on technique, style, performance, and choreography in jazz, ballet, tap, modern and lyrical dance. Performances during and after school are required as a means of assessment. Students will be 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 enrolled will participate in all activities of the band except for students participating in fall 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: Field Show 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 20th 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.

CHORUS**5832 Concert Chorus**

5.0 Credits

VPA

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

The Concert Chorus is open to all students with an interest in singing. This class will assist in gaining the basic skills needed for strong vocal performance. 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. Out-of-school performances are required as a means of assessment.

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 are required 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 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 Foundational Art

5.0 Credits

VPA

Foundational Art is a full year course required for all entry level art students. Concentrated in the realms of two dimensional fine art and pictorial illustration, this course teaches fundamental studio practices and technical skills through a structured progression. Studio based projects stress the key components of proper sketching, drawing techniques, preliminary rough drafting, finalizing, illustrative principles, mixed media and collage application, color theory, color mixing, and painting methods. From the onset, Foundational Art scaffolds essential knowledge that students will rely and build upon throughout the entirety of the course, continuing onto advanced courses offered in the Visual Arts Program.

1802 High Focus Drawing and Painting

5.0 Credits

VPA

Prerequisite: Foundation Art or Teacher Approval

High Focus Drawing and Painting further involves enthusiastic art students in more advanced coursework, while providing a studio environment that immerses them in focused assignments. Expanding on both the media the proficiencies learned in Foundational Art, all students will continue working with traditional materials, and focus on two dimensional fine art, illustration, as well as a sculptural project accompanied by an extended drawing unit. Students will also begin working from numerous lighting scenarios, while honing their understanding of life drawing, and observational painting. Emphasis is placed on the use of drawing pencils, charcoal, pastel, drawing inks, watercolor, mixed-media, acrylic, and/or select oil paints.

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. Students are expected to be self-motivated and able to use skills learned in High Focus Drawing and Painting to create more personal artwork. Projects are jointly planned by student and instructor.

1804 Art IV/Portfolio Art

5.0 Credits

VPA

Prerequisite: Art III and/or recommendation of instructor

This course is an independent study class and specifically for those students planning to study art in college. Students will be expected to develop, plan, and execute projects independently (instructor will facilitate). Responsibilities include photographing artwork and preparing portfolio for submission to art schools.

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.

1806 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 is an introductory course in digital filmmaking. Students will be introduced to techniques in historical and archival research, interviewing, screenwriting/scriptwriting, and video/film production and editing. Students will learn the fundamentals of producing, directing and writing as well as basic digital filmmaking skills including, but not limited to, camera operation, lighting, sound recording, and non-linear editing. Students will also be introduced to techniques in storytelling and creative decision-making. Students will also be responsible to film and edit school events and/or video productions. It will require after school hours, which will be counted as summative grades during the marking period. This course will refine the students writing, filmmaking, and editing skills and prepare them for their entry into Oral History and Filmmaking II.

3784 TV Studio Production II

5.0 Credits

VPA

Prerequisite: TV Studio Production

This is an intermediate course in digital filmmaking. Students will refine previously learned techniques in historical and archival research, interviewing, screenwriting/scriptwriting, and video/film production and editing. Students will refine producing, directing and writing as well as basic digital filmmaking skills including, but not limited to, camera operation, lighting, sound recording, and non-linear editing. Students will

also be introduced to techniques in storytelling and creative decision-making. Students will also be responsible to film and edit school events and/or video productions. It will require after school hours, which will be counted as summative grades during the marking period. This course will refine the students writing, filmmaking, and editing skills and prepare them for their entry into Oral History and Filmmaking III.

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 TV & Film Production II. Students will master their skills in historical and archival research, interviewing, screenwriting/scriptwriting, and video/film production and editing. Students will refine producing, directing and writing as well as basic digital filmmaking skills including, but not limited to, camera operation, lighting, sound recording, and non-linear editing. Students will also be introduced to techniques in storytelling and creative decision-making. Students will also be responsible to film and edit school events and/or video productions. It will require after school hours, which will be counted as summative grades during the marking period. This course will refine the students writing, filmmaking, and editing skills and prepare them for their entry into Oral History and Filmmaking III.

3785 TV Studio Production Internship

2.5 Credits

VPA

Prerequisite: TV Studio Production II

This is a mastery level course for students who have successfully completed TV & Film Production II or III, and have the permission of the TV & Film Instructor. Students will continue to master their skills in historical and archival research, interviewing, screenwriting/scriptwriting, and video/film production and editing. All must direct their own projects from start to finish along with mentoring students in TV & Film Production I & or II. Students will also be required to make short films for entry in festivals and contests throughout the year as well as help facilitate all other level courses and their entries into the contests. Students will also be responsible to film and edit school events and/or video productions. It will require after school hours, which will be counted as summative grades during the marking period.

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

2.5 Credits CCS

This class studies the developmental stages of parenting readiness, pregnancy, prenatal care, labor, and delivery and how to care for a newborn. Then the development of a child from birth to age 6 is explored by concentrating on their physical, intellectual, emotional and social growth. This class is designed to educate students about children, their development, and good parenting skills to ensure the proper development of a child.

1731 Creative Sewing

2.5 Credits CCS

Learn how to sew, knit, crochet, 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.

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.

9999 Peer Mentoring

Credits 5.0 GE

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

Restrictions: Grade 11 & 12 only

Peer leaders are trained in team-building, group facilitation, problem solving, decision-making, and communication skills. In addition, peer leaders will learn about specific content areas, including time management, academic pressures, relationships with family and friends, drugs and other topics.

5101 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 service

ELECTIVE

Project Lead the Way (Pathway to Engineering)

Project Lead the Way (PLTW) offers a dynamic high school program that provides students will 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 Honors

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.

3350 Civil Engineering and Architecture Honors

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 Honors

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.

3351 Biotechnical Engineering Honors

5.0 Credits CCS

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

In this course students explore the diverse fields of biotechnology. Hands-on projects engage students in engineering design problems related to biomechanics, cardiovascular engineering, genetic engineering, tissue engineering, biomedical devices, forensics and bioethics. Students, usually at the 11th and 12th grade level, apply biological and engineering concepts to design materials and processes that directly measure, repair, improve and extend living systems.

Project Lead the Way (Biomedical Science)

The rigorous and relevant four-course PLTW Biomedical Science sequence allows students to investigate the roles of biomedical professionals as they study the concepts of human medicine, physiology, genetics, microbiology, and public health. Students engage in activities like investigating the death of a fictional person to learn content in the context of real-world cases. They examine the structures and interactions of human body systems and explore the prevention, diagnosis, and treatment of disease, all while working collaboratively to understand and design solutions to the most pressing health challenges of today and the future. Each course in the Biomedical Science sequence builds on the skills and knowledge students gain in the preceding courses. Schools offer the three PLTW Biomedical Science foundation courses within a period of three academic years from the start of implementation and may also offer the capstone course.

3390 Principles of Biomedical Science

5.0 Credits GEN

In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

AFJROTC (Air Force Junior Reserve Officer Training Corps)

The Aerospace Science (AS) curriculum consists of four levels. The course levels are identified as ROTC1, ROTC2, ROTC3, and ROTC4. The following description follows the AFJROTC four year course sequence, courses are rotated offering a different course each year.

Students may enter the program at any grade level.

Students are not required to enter or serve in the US arm forces by participating in AFJROTC. However students that complete two years of the ROTC program at a satisfactory level and enter the armed forces will receive one rank promotion upon completing basic training.

Students that complete three years of the AFJROTC program at a satisfactory level will receive two rank promotions upon completing basic training.

Students will also be enrolled concurrently in Leadership Training and Wellness training each year:

LEADERSHIP TRAINING - Leadership is defined by the Air Force as the art of influencing and directing people in a way that will win their confidence, respect, and loyal cooperation in achieving a common objective.

WELLNESS TRAINING - Wellness is a term used to include fitness training as well as health subjects like nutrition, hydration, sleep benefits, and proper exercises. Twenty-percent of the curriculum is devoted to wellness activities and studies. The Air Force calls this program Extreme Excellence Challenge (E2C).

ROTC1

5.0 Credits

CCS

Prerequisite: Wellness permission slip signed by parent

The first level of the AFJROTC instructional program is an introductory course for those entering AFJROTC. Academic material focuses on the development of airpower throughout military history. Cadets will understand the organization of the Department of Defense. Each student receives extensive instruction in Air Force tradition, drill and ceremonies, military customs and courtesies, and leadership principles and techniques. Citizenship principles are reinforced through community service projects. The concepts of good "followership" are fostered as a foundation for leadership.

Students will be required to abide by the dress and grooming standards as mandated by the cadet handbook/ROTC regulations

ROTC2

5.0 Credits

CCS

Prerequisite: Wellness permission slip signed by parent

The second year of Aerospace Science is a general study of aeronautics and components of aerospace power. Academic material covers basic Air Force information and more advanced leadership principles. These principles are practiced through leadership positions within the Cadet Group. Students become instructors in drill and ceremonies and freshman cadet leadership training. Others may assume staff and leadership positions as required within the cadet organizational structure. Organizational planning, time management, and acceptance of responsibility are stressed as cadets assume leadership positions.

Students will be required to abide by the dress and grooming standards as mandated by the cadet handbook/ROTC regulations

ROTC3

5.0 Credits

CCS

Prerequisite: Wellness permission slip signed by parent

The third level explores aerospace issues and the role of military forces in a contemporary world. The scientific aspects of aerospace, with a focus on space or astronomy, are examined. Special attention is given to leadership education such as communicative skills, problem solving, and resource management. Third year cadets assume management and leadership positions in the cadet corps, and their performance is graded. Cadet leaders maintain a management notebook.

Students will be required to abide by the dress and grooming standards as mandated by the cadet handbook/ROTC regulations

ROTC4

5.0 Credits

CCS

Prerequisite: Wellness permission slip signed by parent

Selected upper class cadets are enrolled in AS-400: Management of the Cadet Corps. The fourth year emphasizes career opportunities in civilian life and the military. A comprehensive organization and management project is part of this course. Leadership education covers the principles of job search, the interview process, and job survival skills. Cadets learn how to seek funding for college. Special emphasis is placed on cadet corps management.

Students will require to abide by the dress and grooming standards as mandated by the cadet handbook/ROTC regulations

ESL/Bilingual

5156 English 12/ELL

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 11-12/ELL

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/ELL

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/ELL

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

This course focuses on mastering listening, speaking, reading, and writing both vocabulary and sentence forms at the Entering and Emerging levels of the WIDA English Language Proficiency Standards. This course emphasizes guided language practice and gradual release of responsibility (I do it, we do it, you do it) based on functions (a purpose for communication).

5191 ESL II

5.0 Credits

ENG

This course focuses on mastering listening, speaking, reading, and writing both vocabulary and sentence forms at the Advanced Emerging and Developing levels of the WIDA English Language Proficiency Standards. This course emphasizes guided language practice and gradual release of responsibility (I do it, we do it, you do it) based on functions (a purpose for communication).

5192 ESL III

5.0 Credits

ENG

This course focuses on mastering listening, speaking, reading, and writing both vocabulary and sentence forms at the Advanced Developing and Expanding levels of the WIDA English Language Proficiency Standards. This course emphasizes guided language practice and gradual release of responsibility (I do it, we do it, you do it) based on functions (a purpose for communication).

5193 ESL IV

5.0 Credits

ENG

This course focuses on mastering listening, speaking, reading, and writing both vocabulary and sentence forms at the Advanced Expanding and Bridging levels of the WIDA English Language Proficiency Standards. This course emphasizes guided language practice and gradual release of responsibility (I do it, we do it, you do it) based on fun.

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 Beginners Math/Algebra I

5.0 Credits

MA

This course is offered to English language learners with limited or no formal schooling in their native language and no experience with English. The course provides students with the basic essential math skills needed to successfully begin grade level math course.

5189 Port of Entry/New Comer ESL

5.0 Credits

ENG

This course is offered to English language learners with limited or no formal schooling in their native language and no experience with English. The course provides students with the fundamentals of the English language.

5872 Communication Speech/101

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.

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 math curriculum for each course mentioned the 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.

5880 Technology Applications

Credits 5.0

CCS

This course is an introduction to the latest techniques to acquire basic keyboarding skills. Students will be given the opportunity to learn the following computer applications: how to log in to the High School's network, how to key school-related documents (reports, outlines and lab reports), how to use the computer network to search for sources or information for research projects (library software, Internet and online encyclopedias), history of computers, introduction of all Internet terminology (netspeak), effective ways to search for various types of information, history of the Internet, the basics of e-mail and its use in business and assist other students and staff in searching for useful information for various classes.

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 - 2014-2015
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)
- Fulfills FEBE requirement**
- 5101 Personal Finance (2.5 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) NCAA
- 3350 Civil Engineering and Architecture (5 Credits)
- 3351 Biotechnical Engineering (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 Foundation Art (5 Credits)
- 1802 High Focus Drawing and Painting (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)
- ROTC4 The Science of Flight, Global and Cultural Studies (5 Credits)

WORLD LANGUAGE – Fulfills WL requirement

- 5611 Italian I (5 Credits) NCAA
- 5612 Italian II (5 Credits) NCAA
- 5613 Italian III (5 Credits) NCAA
- 5614 Italian IV (5 Credits) NCAA
- 5615 Italian V (5 Credits) NCAA
- 5631 Spanish I (5 Credits) NCAA
- 5632 Spanish II (5 Credits) NCAA
- 5633 Spanish III (5 Credits) NCAA
- 5634 Spanish IV (5 Credits) NCAA
- 5635 Spanish V (5 Credits) NCAA
- 5636 AP Spanish (5 Credits)
- 5638 Spanish for Heritage Speakers I (5 Credits) NCAA
- 5639 Spanish for Heritage Speakers II (5 Credits)
- 5601 French I (5 Credits) NCAA
- 5602 French II (5 Credits) NCAA
- 5603 French III (5 Credits) NCAA
- 5604 French IV (5 Credits) NCAA
- 5605 French V (5 Credits) NCAA

Academic Electives

HISTORY

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

LANGUAGE ARTS LITERACY

Fulfills CCS Requirement

- 1907 Journalism (5 Credits) NCAA
- Fulfills VPA Requirement**
- 1909 Creative Writing (5 Credits) NCAA
- 1918 Creative Writing II (5 Credits) NCAA
- Fulfills GE Requirement**
- 2145 Race, Gender & Ethnicity (5 Credits) NCAA
- 9660 SAT English (2.5 Credits)
- 2823 Mythology (5 Credits) NCAA
- 1922 Shakespeare (5 Credits) NCAA
- 1905 Yearbook (5 Credits) NCAA
- 5973 Read 180 (5 Credits)

MATH

Fulfills GE Requirement

- 1247 Contemporary Math (5 Credits) NCAA
- 9658 SAT Math (2.5 Credits)
- 5248 Statistics (5 Credits) NCAA
- 5250 Honors Statistics (5 Credits)
- 5240 AP Calculus (5 Credits) NCAA

SCIENCE

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

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)	2.5				
Electives					
Total Credits Needed to Pass	120	27.5 to enter 10 th grade	55 to enter 11 th grade	85 to enter 12 th grade	120 to graduate
Total Scheduled					