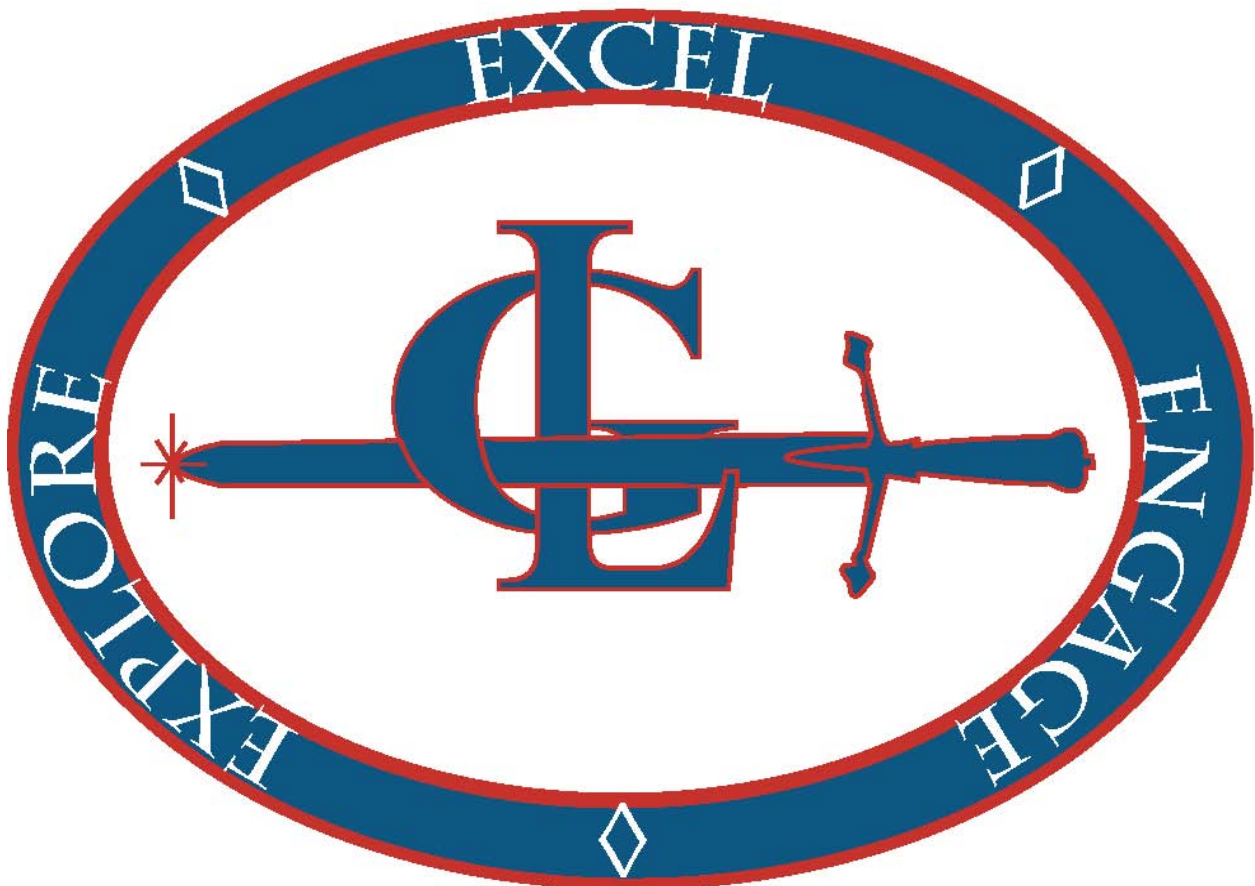


GOVERNOR LIVINGSTON HIGH SCHOOL

Program of Studies 2010-2011

BERKELEY HEIGHTS PUBLIC SCHOOLS

BERKELEY HEIGHTS, NEW JERSEY



GOVERNOR LIVINGSTON HIGH SCHOOL

175 Watchung Boulevard
Berkeley Heights, New Jersey 07922

PROGRAM OF STUDIES 2010-2011

Administration – Berkeley Heights Schools

Superintendent of SchoolsMrs. Judith Rattner
Assistant Superintendent Ms. Patricia Qualshie
Business Administrator/Board Secretary Ms. Donna Felezzola
Math/Science Supervisor.....Mrs. Susan Rembetsy
English/Social Studies Supervisor..... Ms. Laurie Scott
World Languages, ELL and Visual, Performing and Practical Arts Supervisor Dr. Mary Ann Kjetsaa
Special Education Supervisor..... Mrs. Michele Gardner
Guidance DirectorMs. Joyce K. Hayes
Athletic Director.....Mr. Stephen Hopkins
Special Services DirectorDr. Patricia Martino

Administration – Governor Livingston High School

PrincipalMr. Scott McKinney
Assistant Principal..... Ms. Mary Ann McAdam
Assistant Principal..... Mr. Scott Neigel

Counseling Staff

Mr. Christopher Coughlin	Counselor	Ext. 2710
Ms. Carolyn Dennerlein	Counselor	Ext. 2711
Ms. Marissa Gold	Counselor	Ext. 2712
Mrs. Michelle Morin	Counselor	Ext. 2714
Mrs. Deborah Velelis	Counselor	Ext. 2715
Mr. Cliff Lauterhahn	Student Assistance Counselor	Ext. 2713

Governor Livingston High School is accredited by
The Middle States Association of Colleges and Secondary Schools and by
The New Jersey Department of Education

Board of Education policy states that the assignment of students to subject areas is to follow all pertinent federal and state laws and regulations and such assignment will not be predicated on the basis of race, color, creed, religion, sex, ancestry, national origin, social or economic status, or handicapping condition.

Governor Livingston High School

175 Watchung Boulevard
Berkeley Heights, New Jersey 07922

Phone (908) 464-3100
Fax (908) 464-7508

Mr. Scott McKinney
Principal

Ms. Mary Ann McAdam
Assistant Principal

Mr. Scott Neigel
Assistant Principal

Dear Student,

Welcome to Governor Livingston High School! It is my sincere hope that your educational experiences during your high school years will be successful and rewarding ones.

To that end, this Program of Studies booklet has been carefully prepared to inform you about courses that will be offered for the 2010-2011 school year. Please review this information carefully with your parents. As well, please feel free to consult with our professional staff – teachers, guidance counselors, department supervisors, and administrators – to clarify any questions that you may have about your course selections or the course selection process.

Some of the important factors that you should consider when selecting your course of study at the high school include the following:

- *What subjects are required to satisfy state and local graduation requirements?*
- *What are your academic strengths and interests?*
- *What are your educational/occupational goals?*
- *What additional courses will complement your educational goals?*

Remember that meeting your educational goals takes careful planning and will be directly proportional to your individual efforts. I look forward to working with you, your parents and our professional staff, in helping you realize your educational goals.

Sincerely,

Mr. Scott McKinney
Principal

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GOVERNOR LIVINGSTON HIGH SCHOOL FOUR YEAR PLAN

Name _____ Graduation Year _____ Grade _____ Counselor _____

Career Goal _____ Educational Goal _____ GPA _____

SUBJECT	GRADE 9	CR.	GRADE 10	CR.	GRADE 11	CR.	GRADE 12	CR.	TOTAL CREDITS
English-4 yrs.									
Mathematics-3 yrs. min.									
Social Studies-3 yrs.									
Science-3 yrs. min.									
World Languages-1 yr.									
Financial Literacy *									
Visual/Performing-5 credits									
Practical Arts-5 credits									
PE/Health-each yr.									

* Students entering grade 9 in 2010-2011

GENERAL INFORMATION

GRADUATION REQUIREMENTS

All courses satisfactorily completed according to the attendance policy count toward the 120 credit graduation requirement. All students in the district are required to pass all sections of the New Jersey High School Proficiency Assessment and complete a core curriculum of courses and proficiencies that develop the skills and knowledge essential to all citizens.

Core Graduation Requirements

English English 1, English 2, English 3, English 4	4 years	20 credits
Social Studies World History and Culture United States History	3 years 1 year 2 years	15 credits
Mathematics	3 years	15 credits (see note p. 22)
Science	3 years	15 -18 credits (see note p. 27)
World Languages	1 year	5 credits
Visual and Performing Arts Courses that fulfill this graduation requirement are marked ♫ (Visual or Performing Arts)	1 year	5 credits
Practical Arts Courses that fulfill this graduation requirement are marked ↔ (Practical Arts)	1 year	5 credits
Physical Education and Health	Each year of Attendance	20 credits
*Financial Literacy Requirement \$	1 semester	2.5 credits
Technology Literacy This requirement is integrated throughout the curriculum. Students do not take a separate course.	4 years	

Credits are awarded for satisfactory completion of a course. GPA is not weighted and is calculated at the end of the 4th, 6th, and 7th semesters. Students are not ranked.

Subjects taken prior to Grade 9 do not count toward graduation. Students, who complete Algebra 1, geometry, or the first year of a language, may be recommended for the next level.

Note: The administration reserves the right to modify the offerings based upon changes in the student enrollment.

* Begins with Class of 2014

SCHOOL COUNSELING AND GUIDANCE PROGRAM

The school counseling program is designed to help students have a successful and productive high school experience and to build a strong foundation for their future. Counselors build a positive relationship with each student based upon trust, confidentiality, and mutual respect. Students meet with their counselors regularly to review progress, plan academic programs, make key educational and career decisions and discuss problems that they encounter in high school. Counselors will schedule regular conferences with students; however, students and parents are encouraged to make an appointment when there is a need. The Counseling and Guidance Office is the heart of the school and students are always welcome.

Each year counselors offer small group sessions for students and evening programs for parents. Activities help students adjust to high school, explore career interests, and prepare for college, post-secondary education, and jobs. Counseling activities help students experience success and ultimately follow a productive and rewarding career path.

PREPARING FOR COLLEGE AND CAREER

To prepare for college, students should take a challenging college preparatory program. College requirements vary; therefore, students should prepare for admission to a wide range of colleges. Students should consult individual colleges for specific requirements. Important criteria for college admission include a strong record of academic achievement in college preparatory courses, standardized test scores, activities, and recommendations. Career development activities are offered for each grade including career interest inventories, college and technical school speakers, and field trips. Career interest inventory results are used to help students choose courses and select colleges.

College Entrance Examinations

Juniors take the PSAT/NMSQT in October as the qualifier for National Merit Scholarship Competition and as practice for the SAT I. Juniors should take the SAT I at least once in the spring. Highly selective colleges may require three SAT II Subject Tests. Juniors should develop a testing plan for the SAT I, SAT II, and the ACT with their counselor to meet specific college testing requirements. Sophomores are encouraged to take the PSAT for experience.

Carnegie Units/College Preparatory Subjects

To prepare for selective college admission, students should take a minimum of 16 Carnegie Units for college admission. Applicants to highly selective colleges complete 18-20 or more units. One Carnegie unit reflects one year of study in a college preparatory course. Students applying to highly selective colleges should select the most rigorous courses available including AP and Honors courses. They should balance their programs with electives in areas of interest. College requirements vary and students should check specific requirements for admission. The following units are suggested guidelines; however, students should develop a plan that reflects their goals, strengths, and interests.

<u>Selective Colleges</u>		<u>Highly Selective Colleges</u>	
English	4	English	4
Mathematics*	3-4	Mathematics*	4-5
Social Studies	3-4	Social Studies	3-4
World Languages**	2-3	World Languages	4-5
Science	3-4	Science	4-5

*Algebra I, Geometry, and Algebra II are required by most colleges.

*Math Analysis is strongly recommended for science/engineering/business majors.

Calculus is recommended for science/engineering and some business majors.

**One language for 3-4 years is preferable to two languages for two years each.

Planning for School-to-Work

The most important criteria for gaining employment after graduation are a successful academic record, motivation, workplace skills (communication, decision-making, teamwork, adaptability, and reliability), work experience, and strong recommendations. To prepare for work, students should:

- Complete a strong high school program with 16 or more academic subjects
- Take electives in areas of interest such as business, industrial arts and technology, family and consumer sciences, and cultural arts.
- Seek out work experiences through vo-tech, jobs, volunteering and internships.
- Develop a strong resume with recommendations from employers and teachers.
- Prepare for post-secondary education by taking prerequisites for further study in areas of interest.

Early Graduation

Students planning to graduate early must discuss their plans in a conference with their parents and counselor. The four-year requirement in English must be met by original credit (120 hours) earned at an approved summer school. The English supervisor must approve the plan. Diplomas will be issued only in June. Applications must be submitted to the counselor for review according to the following schedule.

Anticipated graduation

Three-year graduation

Three-year graduation after summer school

Three and one-half year graduation

Application Deadline

June 1st of the sophomore year

September 15th of the junior year

June 1st of the junior year

Eligibility for Athletic and Co-Curricular Activities

All students will be required to pass 27.5 credits during the immediate preceding school year, including summer school, to be eligible for the first semester, and 13.75 credits on January 31 to be eligible for the second semester. This does not apply to incoming ninth grade students during the first semester.

Course Failure

Students may repeat a failed course in an approved summer school or during the regular school year and receive credit if they meet proficiencies and pass the repeated course. Students who fail a required subject are not permitted to register for the failed subject and the next level simultaneously without the written approval of the department supervisor, counselor, and principal.

COURSE SELECTION

Selecting courses each year is an important part of the academic plan. Students work with their counselor to develop a plan that reflects interests, abilities, achievement, and goals. In the winter, they update the four-year plan for the following year. The master schedule team analyzes the best placements for students and makes every effort to fill course requests. If a conflict occurs in an elective area, courses will be selected from the student's list of alternatives.

Course Load

All full-time students must maintain a course load of at least 35 credits. Students planning to apply to highly selective colleges should take five academic classes each year. Elective courses and alternates should be selected carefully in accordance with the student's interests, aptitudes, and future plans, as well as meeting State graduation requirements.

All students are encouraged to include a study hall in their course selection.

Students wishing to take more than four AP Courses in any one semester must obtain approval from the Director of Guidance.

Course Differentiation

Regular courses meet the general expectations for a specific grade level or course. Honors courses are taught at an advanced level and students are expected to complete more independent work in greater depth than in the regular curriculum. Advanced Placement courses are taught at a college level and follow guidelines determined by the College Board.

Prerequisites and Sequential Courses

Prerequisites are requirements that must be completed satisfactorily before certain other courses are taken. For example, French 2 is a prerequisite for French 3. Teacher recommendation or minimum grade may also be prerequisites, as well as qualifying tests or other assessments. Students must pass the prerequisite course, have their teacher's recommendation, and/or demonstrate proficiency on any required assessments before they move to the next sequential course. Students who wish to take two required subjects in a department concurrently must have the approval of the supervisor, counselor, and principal. Course completion by examination does not earn credit and applies only to certain subject areas such as world languages, mathematics or science. This also must be pre-approved by the supervisor, counselor and principal.

Schedule Changes

When students indicate their selections on the Course Selection Sheet, their choices reflect firm decisions. Final course selection is the result of serious planning with their counselor, parents, and teachers. Teacher recommendations may not be changed unless the final grade justifies the change. Requests for teacher changes will not be considered except for previous course failure.

English Strategies/Math Strategies

Pupils must demonstrate proficiency at or above the state levels in the Language Arts Literacy, Science and Mathematics portions of the state mandated High School Proficiency Assessment (HSPA). A student who performs below the state minimum level of proficiency in one or more of the NJ ASK 8, practice HSPA or HSPA areas in any academic year will be given remedial services to address the deficient areas. A pupil's standardized test scores, grades, and teacher recommendations will be reviewed prior to determining whether an Individual Student Improvement Plan (ISIP) should be developed and implemented. A student will be afforded the opportunity to demonstrate mastery of a deficient skill until all identified deficiencies have been remediated.

Project Connect

Project Connect Program consists of courses in English, mathematics, science and social studies enriched through the use of projects that integrate the learning in the regular curriculum with each other and with selected elective areas. The linked elective areas include business/digital portfolio, fine arts, life skills/foods and technology/industrial arts. Universal themes such as change, problem solving, similarities and differences, and interdependency of systems provide the framework for the projects in which students are encouraged to think creatively, build their own skills, and become self-motivated learners. Scheduling of Project Connect classes provides for flexibility of time so that students can work on the projects, attend programs and go on field trips. This program is open to 9th graders. Students must apply for Project Connect through the registration process in the 8th grade.

SUBJECTS

DEPARTMENT	OFFERED IN GRADE				CREDITS
	9	10	11	12	
ENGLISH					
English 1	X				5.0
English 1 Honors	X				5.0
Project Connect English	X				5.0
English 2		X			5.0
English 2 Honors		X			5.0
English 3			X		5.0
English 3 Honors			X		5.0
English 3 AP			X		5.0
English 4				X	5.0
English 4 Honors				X	5.0
English 4 AP				X	5.0
Introduction to Theatre Arts	X	X	X	X	2.5
Backstage Theatre Workshop	X	X	X	X	2.5
Acting Workshop		X	X	X	5.0
Introduction to Journalism	X	X	X		2.5
Journalism Workshop – Newspaper		X	X	X	5.0
Journalism Workshop – Yearbook	X	X	X	X	2.5
SAT Review Verbal		X	X	X	1.25
TV Production	X	X	X	X	2.5
Advanced TV Production		X	X	X	2.5
Film Study		X	X	X	2.5
Sports Literature			X	X	2.5
Creative Writing		X	X	X	2.5
Public Speaking	X	X	X	X	2.5
SOCIAL STUDIES					
World History and Culture	X				5.0
World History and Culture Honors	X				5.0
Project Connect World History and Culture	X				5.0
American Studies		X			5.0
American Studies Honors		X			5.0
Contemporary America			X		5.0
Contemporary America Honors			X		5.0
U.S. History AP I – Early		X			5.0
U.S. History AP II – Modern			X		5.0
European History AP			X	X	5.0
Introduction to Economics			X	X	2.5
Microeconomics AP			X	X	2.5
Macroeconomics AP			X	X	2.5
Human Behavior			X	X	2.5
Holocaust/Genocide			X	X	2.5
Criminal Justice		X	X	X	2.5
Anthropology			X	X	2.5
Sociology			X	X	2.5
Diversity Studies		X	X	X	2.5

DEPARTMENT	OFFERED IN GRADE				CREDITS
	9	10	11	12	
<i>WORLD LANGUAGES</i>					
Spanish 1	X	X	X	X	5.0
Spanish 2	X	X	X	X	5.0
Spanish 3		X	X	X	5.0
Spanish 4			X	X	5.0
Spanish 5 AP				X	5.0
French 1	X	X	X	X	5.0
French 2	X	X	X	X	5.0
French 3		X	X	X	5.0
French 4			X	X	5.0
French 5 AP				X	5.0
Latin 1	X	X	X	X	5.0
Latin 2	X	X	X	X	5.0
Latin 3 & 4 Poetry and Mythology			X	X	5.0
Latin 3 Prose and Politics		X			5.0
Italian 1	X	X	X	X	5.0
Italian 2	X	X	X	X	5.0
Italian 3		X	X	X	5.0
Italian 4		X	X	X	5.0
Italian 5				X	5.0
American Sign Language 1	X	X	X	X	5.0
American Sign Language 2		X	X	X	5.0
American Sign Language 3			X	X	5.0

<i>MATHEMATICS</i>					
Math 1	X	X	X	X	5.0
Math 2		X	X	X	5.0
Math for Living			X	X	5.0
Algebra 1 Concepts	X	X	X	X	5.0
Algebra 1	X	X	X	X	5.0
Project Connect Algebra 1	X				5.0
Project Connect Geometry	X				5.0
Geometry Concepts	X	X	X	X	5.0
Geometry	X	X	X	X	5.0
Geometry Honors	X	X	X	X	5.0
Algebra 2 Concepts	X	X	X	X	5.0
Algebra 2	X	X	X	X	5.0
Algebra 2 Honors	X	X	X	X	5.0
Algebra 3/Applied Mathematics		X	X	X	5.0
Math Analysis		X	X	X	5.0
Math Analysis Honors		X	X	X	5.0
Calculus			X	X	5.0
Calculus AP AB		X	X	X	5.0
Calculus AP BC		X	X	X	5.0
Statistics AP/Discrete Mathematics			X	X	5.0
SAT Review Math		X	X	X	1.25
Introduction to Java	X	X	X	X	2.5
Computer Science AP		X	X	X	5.0
Computer Science		X	X	X	5.0
Computer Science 1	X	X	X	X	2.5
Computer Science 2	X	X	X	X	2.5

DEPARTMENT	OFFERED IN GRADE				CREDITS
	9	10	11	12	
SCIENCE					
Biology	X				6.0
Biology Honors	X				6.0
Project Connect Biology	X				6.0
Environmental Science			X	X	6.0
Chemistry Concepts		X	X	X	6.0
Chemistry		X	X	X	6.0
Chemistry Honors		X	X	X	6.0
Physics Concepts			X	X	6.0
Physics		X	X	X	6.0
Physics Honors		X	X	X	6.0
Oceanography			X	X	2.5
Science and Society			X	X	2.5
Forensic Science			X	X	2.5
Anatomy and Physiology (1/2 year w/lab)			X	X	3.0
Chemistry AP			X	X	6.0
Physics AP			X	X	6.0
Biology AP			X	X	6.0

BUSINESS EDUCATION					
Career Planning/Digital Portfolio	X	X	X	X	2.5
Business Technology/Business Lab	X	X	X	X	2.5
Business Management	X	X	X	X	2.5
Entrepreneurship	X	X	X	X	2.5
Business Law	X	X	X	X	2.5
Introduction to Accounting		X	X	X	2.5
Advanced Accounting		X	X	X	2.5
Information Processing/Keyboarding	X	X	X	X	2.5
Project Connect Business	X				1.25

TECHNOLOGY/INDUSTRIAL ARTS EDUCATION					
Introduction to CADD	X	X	X	X	2.5
Advanced CADD	X	X	X	X	2.5
Introduction to Woodworking	X	X	X	X	2.5
Advanced Woodworking	X	X	X	X	2.5
Introduction to Electronics	X	X	X	X	2.5
Advanced Electronics	X	X	X	X	2.5
Photography 1	X	X	X	X	2.5
Photography 2	X	X	X	X	2.5
Introduction to Technology	X	X	X	X	2.5
Applied Technology	X	X	X	X	2.5
Fine Metal Working	X	X	X	X	2.5
Web Design	X	X	X	X	2.5
Project Connect Technology/Industrial Arts	X				1.25

DEPARTMENT	OFFERED IN GRADE				CREDITS
	9	10	11	12	
<i>FAMILY AND CONSUMER SCIENCES</i>					
The Everyday Gourmet	X	X	X	X	2.5
Gourmet Cuisine	X	X	X	X	2.5
Fashion Trends and Clothing Design	X	X	X	X	2.5
Strategies for Living	X	X	X	X	2.5
Independent Living	X	X	X	X	2.5
Interior Decoration and Design	X	X	X	X	2.5
Project Connect Family and Consumer Sciences	X				1.25
<i>MUSIC</i>					
Concert Band	X	X	X	X	5.0
Marching Band	X	X	X	X	1.25
Band Front	X	X	X	X	1.25
Instrumental Workshop	X	X	X	X	5.0
Concert Choir	X	X	X	X	2.5/5.0
Exploring Music and Technology	X	X	X	X	2.5
Music Ensembles	X	X	X	X	2.5/5.0
Orchestra	X	X	X	X	5.0
Jazz Improvisation	X	X	X	X	2.5/5.0
Music Theory	X	X	X	X	2.5/5.0
<i>ART</i>					
Foundations in Studio Art	X	X	X	X	2.5
Crafts	X	X	X	X	2.5
Digital Imaging	X	X	X	X	2.5
Ceramics	X	X	X	X	2.5
Drawing and Painting	X	X	X	X	2.5
Printmaking and Commercial Art	X	X	X	X	2.5
Graphics Design	X	X	X	X	2.5
Computer Animation/Flash	X	X	X	X	2.5
Open Studio/Advanced Art		X	X	X	2.5/5.0/10.0
Advanced Placement Art Portfolio		X	X	X	5.0
Project Connect Art	X				1.25
<i>PHYSICAL EDUCATION/HEALTH</i>					
Physical Education	X	X	X	X	3.75
Health Education	X	X	X	X	1.25
Sports Medicine I			X	X	2.5
Sports Medicine II			X	X	2.5
<i>INTERDEPARTMENTAL and OTHERS</i>					
Union County Vocational Technical School		X	X	X	15.0
Applied Mathematics UCVTS		X	X	X	2.5
Applied Science UCVTS		X	X	X	2.5

COURSE DESCRIPTIONS

Visual & Performing Arts and Practical Arts

Courses that fulfill the graduation requirements are marked

♫ (Visual or Performing Arts) or ⚙️ (Practical Arts)

When both symbols are displayed, graduation fulfillment is determined by the certification of the teacher who teaches the course.

Courses that fulfill the Financial Literacy requirement are marked \$.

Ask your guidance counselor for further clarification.

ENGLISH 4 HONORS ENY 1220 5 credits 12

Prerequisites: • B in previous honors level English OR
• A in previous regular level English course
• AND teacher recommendation

English 4 Honors requires students to explore representative examples of English literature. Students in this course must take much of the responsibility for their own learning and be able to handle the demanding curriculum at an accelerated pace. This class requires refined critical-thinking skills and a high level of motivation. Many of the texts are college-level works. Students also complete several projects and papers. This writing-based course involves both persuasive and analytical assignments. Students are expected to participate in class discussions on a daily basis. All students taking English 4 Honors are required to complete a senior research project that will be presented in class.

ENGLISH 4 ADVANCED PLACEMENT IN LITERATURE AND COMPOSITION ENY 1230 5 credits 12

Prerequisites: • B average in AP English 3 OR
• A average in English 3 Honors AND a passing score on the AP English qualifying activity. (If one of these is missing, a teacher recommendation is required).

Advanced Placement English 4 engages students in a critical analysis of imaginative literature. Students deepen their understanding of the ways writers use language to provide meaning and pleasure for their readers. Students consider a work's structure, style, and themes, as well as figurative language, imagery, symbolism, and tone. Works of various genres and periods from the 16th to the 20th century are studied. A work's social and historical values are also considered. Competency in writing about literature is emphasized. Students are expected to move beyond the classroom assignments to independent research. These independent efforts are shared with class members to clarify the diversity and complexity of literature being studied.

INTRODUCTION TO THEATRE ARTS VPS 0031 2.5 credits ♪ 9, 10, 11, 12

In Introduction to Theatre Arts, students study all aspects of theatre with an emphasis on acting. Students will have the opportunity to investigate the work of theatrical designers, actors and directors throughout history. Coursework includes design and performance projects.

BACKSTAGE THEATRE WORKSHOP PAS 0023 2.5 credits ⇄ 9, 10, 11, 12

Theatrical Production focuses on all the aspects of theatre except acting. Students acquire practical knowledge in the areas of production, house management, direction, and design. Some examples of topics studied are advertising, casting, costumes and makeup, sets, and lighting. *May be repeated for credit.

ACTING WORKSHOP VPS 0023 2.5 credits ♪ 10, 11, 12

Prerequisite: • Introduction to Theatre Art or recommendation of instructor

The aim of this course is to build upon acting skills introduced in the Introduction to Theatre Arts course, or gained through experience in theatrical productions. Students will learn to develop character with the use of inner resources, movement, and voice. Coursework includes the performance of monologues and scenes. * May be repeated for credit.

CREATIVE WRITING (Writing for Publication) ENS 0001 2.5 credits 10, 11, 12

This elective course is offered to students who are interested in publishing their work as well as developing their writing abilities. The course encourages students to do creative writing of short stories, poetry, personal essays and autobiographies. It also prepares them for college and workplace writing. Students will be provided with several opportunities to publish their work either online or in journals.

INTRODUCTION TO JOURNALISM ENS 0032 2.5 credits ⇄ 9, 10, 11
The emphasis in this course is on clear and concise writing for newspapers and radio. News writing, layout, advertising, feature and sports writing, and headline preparation are some of the areas covered.

JOURNALISM WORKSHOP: NEWSPAPER ENY 0033 5 credits* ⇄ 10, 11, 12
Prerequisite: •Introduction to Journalism
Students who have acquired skills in journalism may elect to take this course. In addition to working on the school newspaper, the course may include publicity for school affairs or preparation of news releases for commercial newspapers. *May be repeated for credit.

JOURNALISM WORKSHOP: YEARBOOK ENS 0034 5 credits ⇄ 9, 10, 11, 12
This course is designed to acquaint students with the practical problems involved in producing a yearbook. The principles of staff organization, printing procedures, copy preparation, and the graphic arts are dealt with in some detail. *May be repeated for credit.

SAT REVIEW VERBAL ENQ 0040 1.25 credits 10, 11, 12
This course prepares students for the verbal section of the PSAT and SAT. It emphasizes critical-thinking skills, reading comprehension, vocabulary development, and familiarization with the format of the test, types of questions asked, and strategies for successful test taking. * Formerly offered on a pass/fail basis, this course is now graded.

T.V. PRODUCTION PAS 0010 2.5 credits ⇄ 9, 10, 11, 12
In this course, students learn journalistic and interviewing skills, as well as the technical aspects of television broadcasting. These aspects include camera techniques, sound mixing and recording, electronic graphics, and editing.

ADVANCED T.V. PRODUCTION PAS 0011 2.5 credits ⇄ 10, 11, 12
Prerequisite: • T.V. Production
Students continue to develop their journalistic skills and learn more about the operation of television equipment. *May be repeated for credit.

FILM STUDY ENS 0003 2.5 credits 10, 11, 12
This course includes the study of American film from the 1930s to the present. Elements studied include the director's style, cinematography, art direction, editing, and sound and score. This allows students to explore the way in which film communicates plot, conflict, character, mood, and message. This course provides a different perspective on literature through the visual arts.

SPORTS LIT ENS 0004 2.5 credits 11, 12
From novels about famous racehorses to daily sports pages, a large portion of society is drawn to stories about sports and the people involved in them. Sports Lit is focused on reading and writing about sports. Students read biographies of sports figures, sports magazine articles, and short stories. They also write in the style of sports writers viewing sports videos or real life events.

ENGLISH STRATEGIES ENS 0005/06 2.5 credits 9, 10, 11, 12
Students who need remedial work in language arts will be placed in the English Strategies class. Placement in these classes will be based on the results of test and recommendations. See page 4.

PUBLIC SPEAKING ENS 0007 2.5 credits 9, 10, 11, 12
Prerequisites: None
The aim of this course is to build upon presentation skills introduced in other courses. Students will improve traditional speaking techniques including poise, volume, pace, and expression. In addition they will further develop the skills of topic selection, research and development of materials, and the use of visual aids.

SOCIAL STUDIES

Social studies helps students develop the ability to make informed and reasoned decisions as citizens in a culturally diverse, democratic society. Students develop a core of basic knowledge and ways of thinking drawn from many disciplines. They learn how to form opinions on critical issues and to develop an understanding of the importance of participation in civic and community affairs. Students learn to recognize the global interdependence of states and people and how to become active participants in society.

The social studies program includes three years of required courses: World History and Culture, American Studies and Contemporary America, and a number of electives. Sophomores who qualify may begin a two-year sequence of United States History AP Seminar I and II. The permission of the social studies supervisor and the principal must be obtained for a student to take two years of required social studies courses concurrently. Students accepted into Advanced Placement courses must complete summer assignments selected by the teachers of those courses. Teachers evaluate summer assignments in the fall.

WORLD HISTORY AND CULTURE SSY 0910 5 credits 9

This course is organized into six chronological units that focus on the history of the world from the Renaissance to the modern day. Geography, economics, politics, and social history are integrated into the course. The curriculum also addresses the tasks of the HSPA and many social studies skills including reading, research, and critical thinking. The course also emphasizes study skills and the integration of technology. Students are required to complete several individual/group projects including a newspaper project, a comparative case study, an issue paper and a collage based on research.

WORLD HISTORY AND CULTURE HONORS SSY 0920 5 credits 9

Prerequisite: • 93 average in 8th grade Social Studies AND
• Teacher recommendation

This course is organized into six chronological units that focus on the history of the world from the Renaissance to the modern day. Geography, economics, politics and social history are integrated into the course. The curriculum also addresses the tasks of the HSPA and many social studies skills including reading, research, and critical thinking. The course also emphasizes study skills and the integration of technology. Students are required to complete several individual/group projects including a biography project and two or three analysis papers each marking period.

PROJECT CONNECT PROGRAM IN

WORLD HISTORY AND CULTURE SSY 0960 5 credits 9

The Project Connect Program consists of courses in English mathematics, science and social studies enriched through the use of projects that integrate the learning in the regular curriculum with each other and with selected elective areas. The linked elective areas include business/digital portfolio, fine arts, life skills/foods and technology/industrial arts. Universal themes such as change, problem solving, similarities and differences, and interdependency of systems provide the framework for the projects in which students are encouraged to think creatively, build their skills, and become self-motivated learners. Scheduling of Project Connect classes provides for flexibility of time so that students can work on the projects, attend programs, and go on field trips. This course is open to 9th graders and students must apply for Project Connect through the registration process in the 8th grade.

AMERICAN STUDIES SSY 1010 5 credits 10

Prerequisite: • World History and Culture

American Studies is an examination of the period in American history from the Civil War through World War II. The course begins with a review of major themes in early American History then examines the Civil War, the emergence of modern America, and the evolution of America from 1890-1946. It includes study of the multicultural character of the American people, the impact of geography on development, economic and social issues and the changing role of the U.S. in the world. Students continue to refine their social studies and critical thinking skills. Each student is expected to improve research skills and to complete a research paper.

AMERICAN STUDIES HONORS SSY 1020 5 credits 10

Prerequisites: • World History and Culture
 • B in previous honors level Social Studies course OR • A in previous regular level course
 • AND teacher recommendation

Students address many of the same topics and themes addressed in American Studies. In the honors level, students utilize college level texts and supplementary resources especially primary sources in order to complete projects. They are expected to produce a significant amount of writing including analysis papers, a research paper and a book review of a work of historical fiction. Students continue to refine their social studies and critical thinking skills.

CONTEMPORARY AMERICA SSY 1110 5 credits 11

Prerequisites; • World History and Culture
 • American Studies

Students study the period in American history beginning with America's entry into World War II and extending to the present day. Aspects of government, political science, history, economics and culture are integrated into the course. Students focus on more complex thinking skills while maintaining and extending social studies skills previously learned. They are expected to analyze historical trends, evaluate information and identify alternate courses of action. Students utilize a textbook and many supplementary materials including those available on the Internet. They complete several individual and group projects including a final project in which they demonstrate knowledge of a contemporary issue.

CONTEMPORARY AMERICA HONORS SSY 1120 5 credits 11

Prerequisites: • World History and Culture
 • American Studies
 • B in previous honors level social studies course OR
 • A in previous regular level course
 • AND teacher recommendation

In the Contemporary America Honors course, students address the same themes and topics presented in Contemporary America. In the honors level, students utilize college level texts and supplementary resources, especially primary sources, in order to complete research projects. They are also expected to do extensive out-of-class research resulting in written and oral reports including a final project on a contemporary issue.

ADVANCED PLACEMENT UNITED STATES HISTORY I SSY 1130 5 credits 10

- Prerequisites:
- A in World History and Culture Honors
 - Passing score on the qualifying activity
 - If missing one of the above, a teacher recommendation is required.

Advanced Placement U.S. History I Seminar is a two-year sequence of study taken by students in 10th and 11th grades. The AP U.S. History I seminar is a rigorous, in-depth study of our national history using a college level text, and monographic and primary source materials. Emphasis is placed on the development of well-reasoned, argued, and supported historical analysis, as well as a wide knowledge of history. Students write document-based questions and thesis papers based on extensive reading and research. U.S. AP I seminar is a chronological course that covers American history from the pre-Columbian period the Progressive Era. This course fulfills one of the two years of required U.S. history. New students entering the high school as sophomores or juniors may begin the two-year sequence if they meet the required criteria. All students must complete a summer assignment prior to beginning the course.

ADVANCED PLACEMENT UNITED STATES HISTORY II SSY 1030 5 credits 11

- Prerequisites: •B in AP United States History I

This course is the second year of a two-year sequence. It prepares students to take the Advanced Placement United States History Examination. The course also completes the New Jersey State requirement for a second year of United States history. AP United States History II Seminar is an in-depth study of American history using a college level text and monographic and primary source materials. Emphasis is placed on both historical knowledge and historical analysis. Students must complete significant amounts of college level reading and writing as well as research and original historical thought. It is a chronological course that covers American history from the Progressive Era to the present. Thematic topics include emergence of the modern nation, stepping onto the world stage, the crucible of World War II, and America as a superpower. All students must complete a summer assignment prior to beginning the course.

ADVANCED PLACEMENT EUROPEAN HISTORY SSY 1131 5 credits 11, 12

- Prerequisites: • B in AP United States History II OR
• A in Contemporary America Honors

European History Advanced Placement Seminar is a college-level course. It provides a survey of European history from 1450 to the present and includes the political, diplomatic, intellectual, cultural, social, and economic history of Europe. The students develop the ability to distinguish trends, establish causes, and recognize results. They use and analyze primary sources in studying historical events. All students must complete summer assignments prior to beginning the course.

INTRODUCTION TO ECONOMICS SSS 0009 2.5 credits \$ 10, 11, 12

- Prerequisites: None

The aim of this course is to introduce students to the basic concepts of economics. These include fundamental economic concepts, microeconomics, macroeconomics, institutions and issues, and the global economy.

ADVANCED PLACEMENT MICROECONOMICS SSS 0007 2.5 credits 11, 12

- Prerequisites:
- Must have completed AP U.S. History II and received a “B” or better OR
 - Must have completed Contemporary America and received a “B+” or better AND
 - Must have completed Math Analysis with a “B+” or better OR
 - Must have completed Math Analysis Honors with a “B” or better

AP Microeconomics deals with the functions of individual decision-makers within the larger economic system. Emphasis is placed in the nature and functions of product markets and the role of government.

ADVANCED PLACEMENT MACROECONOMICS SSS 0008 2.5 credits 11, 12

Prerequisites: •Must have completed AP U.S. History II and received a “B” or better OR
 •Must have completed Contemporary America and received a “B+” or better AND
 •Must have completed Math Analysis with a “B+” or better OR
 •Must have completed Math Analysis Honors with a “B” or better

AP Macroeconomics focuses on understanding the principles of economics that apply to an economic system as a whole. Topics include economic performance measures, economic growth, and international economics.

HUMAN BEHAVIOR SSS 0001 2.5 credits 11, 12

Human behavior provides an introduction to psychology. The course deals with the behavior of individual organisms, the brain, and learning, and intelligence, theories of human development, personality, and abnormal psychology. Students participate in many activities such as personality tests, conditioning demonstrations, mazes, self-evaluations, and experiments in creativity and perception.

SOCIOLOGY SSS 0002 2.5 credits 11, 12

Sociology examines human behavior by emphasizing the social interactions of humans. The sociological approach is applied to four topics: a definition of sociology, the rules which groups follow the organization of societies, and changing social institutions. Emphasis is placed on student involvement in field exercises in the community as well as through classroom demonstrations and experiments.

HOLOCAUST AND GENOCIDE SSS 0003 2.5 credits 11, 12

Holocaust and Genocide focuses on the impact of inhumanity throughout history and especially on the examples of inhumane behavior displayed in Nazi Germany before and during World War II. The course provides in-depth examination of several major topics: theories about human behavior, the causes and historical examples of genocide, conditions that led to the rise of Nazism, Nazi programs, and the short and long-term impact of the Holocaust.

DIVERSITY STUDIES SSS 0004 2.5 credits 10, 11, 12

Students enrolled in Diversity Studies look at the history, culture, and literature of some of the major ethnic groups and minorities who have contributed to American life. The groups may include African-Americans, Hispanic-Latino Americans, Native-Americans, and Asian-Americans. Students examine what constitutes a minority and some of the problems encountered by various minority groups. Students also have the opportunity to research groups of their choice.

CRIMINAL JUSTICE SSS 0005 2.5 credits 10, 11, 12

Criminal Justice includes the study of crime, the police, trials, the prison system, and juvenile justice. Students participate in debates, case studies, and simulations of real life situations. This course provides an introduction to criminal justice for all students but is especially interesting to those who plan careers in law enforcement or law.

ANTHROPOLOGY SSS 0006 2.5 credits 11, 12

This cultural anthropology course is a comparative study of the worlds’ people and cultures by using information from the natural, social, and behavioral sciences. Emphasis is placed on how the material can be applied by students in their own observations and interactions. Topics include the meaning of culture, types of communication, and social organizations.

WORLD LANGUAGES

As we move into the new millennium, communication on a global basis becomes increasingly important. Languages other than English are no longer considered “foreign.” A comprehensive high-school curriculum demands exposure to other languages and cultures. Languages offered at Governor Livingston include French, Italian, Latin, Spanish and American Sign Language, with advanced placement courses offered in French and Spanish. All courses in the World Languages department are sequential, full-year courses. All language instruction emphasizes communicative skills as well as the cultural aspects of the target country and its people. Language students participate in activities focused on the interpersonal, interpretive, and presentational modes while immersing the students in the target language. This approach allows students to understand and interpret the spoken and written language, engage in direct oral and written communication, and make presentations in the target language.

SPANISH 1 WLY 0910 5 credits 9, 10, 11, 12

This course focuses on developing a working vocabulary as well as the ability to produce meaningful communication. A variety of activities will be used such as role-plays, skits, celebrations of holidays, and collages. The aim of this course is for the student to develop skills in the three communicative language modes by being able to understand, converse, interact, and present oral and written products in Spanish. Opportunities to learn about and explore Hispanic culture are also emphasized throughout the course.

SPANISH 2 WLY 1010 5 credits 9, 10, 11, 12

Prerequisites: • C in Spanish 1A and Spanish 1B in Grade 8
• Teacher recommendation

The goals of this course are to continue to develop the ability to communicate in Spanish in a meaningful way, to continue to increase the student’s appreciation of the culture of the countries studied, and to increase student fluency. By using the three communicative modes; interpretive, interpersonal and presentational, the student will be able to understand, converse, interact and present using oral and written communication in Spanish. Some activities to enhance learning may include a fashion show, video tours and skits. Grammar and vocabulary learned in Spanish 1 are briefly reviewed. The expectation is that the student has established a firm language foundation during Spanish 1.

SPANISH 3 WLY 1110 5 credits 10, 11, 12

Prerequisites: • Spanish 2

Spanish 3 continues to emphasize but at a much higher level the development of the three communication modes: interpretive, interpersonal and presentational. This course uses the reading and discussion of short literary selections to develop greater skill and fluency in Spanish. Students explore Hispanic life, customs, literature, and career opportunities throughout the course. Projects may include planning a virtual trip to a Hispanic region with the use of a computer and the information found on international websites. Short compositions and oral presentations by the students are included.

SPANISH 4 WLY 1210 5 credits 11, 12

Prerequisites: • Spanish 3

Spanish 4 continues to emphasize the development by the student of the three modes of communication: interpretive, interpersonal and presentational. Students are expected to be able to complete assignments using more complex text. Students will be expected to participate in oral presentations, class discussions, and forums. In addition, there is extensive descriptive writing and style analysis. A wide variety of cultural readings are part of the course, including contemporary short stories, poetry and selections from novels as well as the study of Hispanic art and history in Spanish speaking countries and areas around the world. With the use of the Internet, students may tour art museums and critique works by various Hispanic artists.

ADVANCED PLACEMENT SPANISH WLY 1230 5 credits 12
Prerequisite: • Spanish 4

Advanced Placement Spanish is designed to provide the student with an intellectual challenge through the advanced study of language. While literature is included in the course, the emphasis is on composition and conversation. This course is comparable in both content and difficulty to a college-level Spanish language course. The course seeks to develop language skills that can be applied to various activities and disciplines rather than the mastery of any specific subject matter. Extensive training in the organization and development of compositions constitutes an integral part of the course.

LATIN 1 WLY 0913 5 credits 9, 10, 11, 12

Latin 1 is the introductory course for Latin studies. The focus of the course is reading and writing the Latin language while increasing vocabulary acquisition. The readings follow the life of a family living in Pompeii leading up to the eruption of Vesuvius. Students will participate in action packed skits and dialogues while learning about the origins of western civilization. There is one major project that requires research using the Internet and a physical representation of that research in the form of a model, diorama, or product. Level 1 Latin students will have the opportunity to compete on the state and national level.

LATIN 2 WLY 1013 5 credits 9, 10, 11, 12
Prerequisite: • C in Latin 1A and Latin 1B in Grade 8
• Teacher recommendation

Students continue to develop their skills in reading Latin while learning about the Roman occupation of Britain and Egypt. The readings include advanced grammatical forms that provide students with the opportunity to improve their writing skills and understanding of basic linguistics. Students will create a research project that includes Internet research and desktop publishing while exploring the authenticity of the readings. Level 2 Latin students will have the opportunity to compete on the state and national level.

LATIN 3 PROSE AND POLITICS WLY 1213 5 credits 10
Prerequisite: • Latin 2

Latin Prose and Politics is a course for students who have successfully completed Latin 1 and 2. This course is organized to incorporate the communicative modes of language learning as it applies to the study of classical languages. Students read and comprehend various modern Latin stories while working toward the goal of reading the authentic writings of Cicero, Pliny the Elder and Tacitus. Students may also have the opportunity to read Plautus and connect his style and plot to modern writings.

LATIN 3 and 4 POETRY AND MYTHOLOGY WLY 1123 5 credits* 11, 12
Prerequisite: • Latin 2 AND Latin ¾ Prose and Politics

The first semester begins with a study of Jason and the Argonauts and a review of grammar. The readings continue with the study of two works of Latin literature, Ovid's *Metamorphoses*, which deals with classical mythology, and Virgil's great epic, *The Aeneid*, the story of the founding of Rome and the role of Augustus in Roman history. Poetic devices and structure provide the focus for the course. The literary, historical and cultural significance of these works is explored through class discussion and research. Such themes as the Roman concept of courage, patriotism, destiny and friendship are discussed along the Augustus' Pax Romana. *Offered in (2010-2011) only.

ITALIAN 1 WLY 0911 5 credits 9, 10, 11, 12

This beginning level course focuses on the development of the ability to communicate in Italian using the three communicative modes: interpretive, interpersonal and presentational. It provides a foundation of vocabulary and grammar to develop the student's ability to understand, converse, interact and make presentations in Italian. The study of Italian culture is an integral part of this course. Activities such as role-playing, skits and collages will be included.

ITALIAN 2 WLY 1011 5 credits 9, 10, 11, 12
Prerequisite: • C in Italian 1 or C in Italian 1A, 1B
• Teacher recommendation

The goal of this course is to develop the ability to communicate using the three communicative modes: interpretive, interpersonal, and presentational. Through the introduction of new grammar and vocabulary, the student will be able to understand, to converse, to interact and to make presentations in Italian on a more difficult level. The study of Italian culture and civilization continues throughout the course. Possible activities include presenting a weather forecast, a fashion show and skits about different holidays.

ITALIAN 3 WLY 1111 5 credits 10, 11, 12
Prerequisite: • Italian 2

Students continue to master the three communicative modes: interpretive, interpersonal and presentational. Students continue to develop the ability to understand, to converse, to interact and to make presentations in Italian. Short reading selections, newspaper and magazine articles are used to discuss Italian daily life, customs and career opportunities. Brief compositions and oral presentations are included.

ITALIAN 4 WLY 1211 5 credits 11, 12
Prerequisite: • Italian 3

A high level of ability in the three communicative modes is expected. The student should be able to understand, converse and make presentations with an advanced degree of proficiency. Italian authors from the Middle Ages to the present are included. Novels of famous Italian authors are read, discussed, and presentations are made by the students. A thorough overview of all aspects of Italian culture will be presented and discussed.

ITALIAN 5 WLY 1231 5 credits 12
Prerequisite: • Italian 4

The Italian 5 course continues the study of the Italian language and culture using the three communication modes: interpersonal, interpretive and presentational. Activities are geared to challenge students and to provide them with opportunities to develop their ability to acquire and use the Italian language as well as to learn and discuss the culture. In addition, the course will have opportunities to read and discuss Italian literature. This course is comparable in both content and difficulty to a full-year college-level Italian language course.

FRENCH 1 WLY 0912 5 credits 9, 10, 11, 12

This course emphasizes the active involvement of the students in the production of meaningful communication. Culture is infused throughout each lesson. The goal is to develop the students' ability to understand, speak, read and write in French. Language students will participate in activities focused on the interpersonal, interpretive and presentational modes: that is, they will understand and interpret spoken and written commands, engage in direct oral and/or written communication, and make presentations in the target language. Some of the activities will include French songs and movies; world travel via the Internet, role-play activities, projects/presentations such as clothing catalogues, and restaurant menus.

FRENCH 2 WLY 1012 5 credits 9, 10, 11, 12
Prerequisites: • C in French 1 or C in French 1A and French 1B
• Teacher recommendation

French 2 stresses the active involvement of the students in the acquisition of meaningful communication. Grammar is taught in context; culture is infused throughout each lesson. The goal is to develop the students' ability to understand, speak, read, and write in French. Language students will participate in activities focused on the interpersonal, interpretive and presentational modes; that is they will understand and interpret spoken and written commands, engage in direct oral and/or written communication and make presentations in the target language.

FRENCH 3 WLY 1112 5 credits 10, 11, 12
Prerequisite: • French 2

Emphasis continues to be placed on communication. Reading and the discussion of short selections of French life, customs, literature, and career opportunities are used. Grammar learned in French 1 and 2 is reviewed briefly and new constructions are presented. Students are expected to produce short compositions and make oral presentations.

FRENCH 4 WLY 1212 5 credits 11, 12
Prerequisite: • French 3

Students in French 4 continue to master the communication modes through the use of a variety of experiences using the target language. This course is organized around high-interest contemporary topics and literary excerpts. Students will be able to express more complex ideas and relationships. Essential grammar points are reviewed as they appear in the readings. Activities include the writing of narrative and expository pieces; the development and production of cartoons and advertisements; the completion of readings (short stories and novels); the discussion and evaluation of poetry; the completion of web quests; and the exposure to appropriate music experiences.

ADVANCED PLACEMENT FRENCH 5 WLY 1232 5 credits 12
Prerequisite: • French 4

Advanced Placement French is designed to provide the student with an intellectual challenge through the advanced study of the language. While literature is included in the course, the emphasis is on composition, conversation and student generated presentations. This course is comparable in both content and difficulty to a full-year college-level French language course. This course seeks to develop language skills that are useful in themselves and that can be applied to various activities and disciplines rather than mastery of any specific subject matter. A variety of activities and materials, such as literary and expository readings, newspapers, magazines, slides, audiocassettes, computer software, films, videocassettes, songs, and cartoons are provided to make the presentations challenging and stimulating.

AMERICAN SIGN LANGUAGE 1 WLY 0914 5 credits* 9, 10, 11, 12

American Sign Language is a visual language with vocabulary, grammar, idioms, and syntax different from English. This course focuses on the development of conversational sign-language skills and the grammatical structure of American Sign Language. Students are exposed to a variety of sign systems and modes of communication used by the deaf community. This course introduces the history of sign language and the importance of deaf culture. Class participation is an integral part of the course. No voice is used in the class.

AMERICAN SIGN LANGUAGE 2 WLY 1014 5 credits* 10, 11, 12
Prerequisite: • American Sign Language 1

Students will further develop skills learned in American Sign Language 1. Linguistic principles learned in American Sign Language 1 are reviewed. Emphasis is on receptive and expressive non-verbal communication skills. Communication in American Sign Language is stressed, together with an understanding of the deaf community and culture. Activities include lecture, discussion, movies, and guest speakers. Students participate in sign language games, story telling, and role-play. No voice is used in the class.

AMERICAN SIGN LANGUAGE 3 WLY 1114 5 credits* 11, 12
Prerequisite: • American Sign Language 2

This course offers a third full year of study in American Sign Language. Advanced vocabulary and grammatical principles are learned in conjunction with conversational skills. Students participate in an in-depth study of the cultural, historical, and linguistic aspects of American Sign Language and the deaf community. Class participation is an integral part of this course. No voice is used in the class.

* Some colleges may not accept American Sign Language as a world language for application purposes. Supervisor for the American Sign Language courses can be reached at Ext. 1730.

MATHEMATICS

Mathematics plays an integral part in preparing students to function successfully in society. The development of high-order thinking skills enables students to manage and achieve career and personal goals. Three years of mathematics study are part of the requirements for graduation. While possible sequences of study are listed, movement may occur from one sequence to another, based on student achievement and teacher or supervisor recommendation/approval.

POSSIBLE SEQUENCES OF STUDY

	OPTION 1	OPTION 2	OPTION 3
9 th	Algebra Concepts	Algebra 1	Geometry
10 th	Geometry Concepts	Geometry	Algebra 2
11 th	Algebra 2 Concepts	Algebra 2	Math Analysis
12 th	Math for Living	Math Analysis or Algebra 3/Applied Mathematics	Calculus** or AP Statistics/ Discrete Mathematics or AP Comp Sci or Algebra 3/Applied Mathematics
	OPTION 4	OPTION 5	
9 th	Geometry Honors	Algebra 2 Honors	
10 th	Algebra 2	Math Analysis	
11 th	Math Analysis Honors	AP Calculus AB or BC**	
12 th	AP Calculus AB or BC** or AP Statistics/ Discrete Mathematics or AP Comp Sci or Algebra 3/Applied Mathematics	AP Statistics/Discrete Mathematics or AP Comp Sci	

NOTE: For freshmen entering 2010, 15 credits including Algebra 1 and Geometry

Students in Project Connect take either Project Connect Algebra 1 or Project Connect Geometry in Grade 9

Algebra 3/Applied Mathematics is an alternative for either a 3rd or 4th year of mathematics

**Calculus is a prerequisite for AP Physics

NOTE: In addition to the math prerequisites listed below, other prerequisites like teacher and/or supervisor recommendation and/or qualifying grade on a departmental math assessment may apply.

MATHEMATICS 1 MAY 0901

5 credits

9, 10, 11, 12

This course contains a comprehensive and extensive review of the fundamental operations of arithmetic and whole numbers, decimals, fractions, and percents. The following topics are introduced and integrated with the computational skills: geometry, ratio/proportion, metric measurements, perimeter, area, volume, graphs, probability, factors, data analysis, evaluating expressions, solving equations, and the coordinate graphing system. Problem-solving skills are integrated into topics, and considerable time is allotted for the acquisition of these skills.

MATHEMATICS 2 MAY 1001 5 credits 10, 11, 12
Prerequisite: • Mathematics 1

This course includes a review of arithmetic skills: whole numbers, decimals, fractions, and number concepts. Work also is done in set theory, ratio and proportion, percents, measurements, perimeters, areas, volumes, graphs, data analysis, expressions, equations, factoring, and problem solving. Much of the course is devoted to connecting the above-mentioned skills to the study of algebra and geometry.

MATH FOR LIVING MAY 0001 5 credits 11, 12
Prerequisites: • Two years of math

This course provides an introduction and exposure to topics that students will encounter during their lives. It includes a comprehensive coverage of personal mathematics involving gross/net income, checking and savings accounts, cash and credit purchases, borrowing, automobile transportation and housing costs, insurance, investments, and record keeping. In addition, the business mathematics topics of personnel, production, purchasing, sales, warehousing and distribution, and overhead are included.

ALGEBRA CONCEPTS MAY 0900 5 credits 9, 10, 11, 12

This algebra course will use inductive and deductive approaches to develop the basic algebraic operations. Topics include integers and operations, solving linear equations and inequalities, polynomials, graphing, factoring and word problems that will make connections to real life problems.

ALGEBRA 1 MAY 0910 5 credits 9, 10, 11, 12

A primary objective is to emphasize an axiomatic development of the rational number system. Other major topics in the course include equations, the rectangular coordinate system, elementary functions, and applications. The course employs inductive and deductive approaches in the development of content. The student gains an understanding of key concepts and proficiency in various processes, which are necessary for future study in mathematics courses and are also necessary in many other fields of study.

PROJECT CONNECT PROGRAM IN ALGEBRA 1 MAY 0960 5 credits 9

The Project Connect Program consists of courses in English, mathematics, science and social studies enriched through the use of projects that integrate the learning in the regular curriculum with each other and with selected elective areas. The linked elective areas include business/digital portfolio, fine arts, life skills/foods and technology/industrial arts. Universal themes such as change, problem solving, similarities and differences, and interdependency of systems provide the framework for the projects in which students are encouraged to think creatively, build their skills, and become self-motivated learners. Scheduling of Project Connect classes provides for flexibility of time so that students can work on the projects, attend programs, and go on field trips. This course is open to 9th graders and students must apply for Project Connect through the registration process in the 8th grade. Upon completion, students gain an understanding of key concepts in Algebra 1, similar to those found in Algebra MAY 0910, which are necessary for future mathematics courses, and are also necessary in many other fields of study.

PROJECT CONNECT PROGRAM IN GEOMETRY MAY 1060 5 credits 9

The Project Connect Program consists of courses in English, mathematics, science and social studies enriched through the use of projects that integrate the learning in the regular curriculum with each other and with selected elective areas. The linked elective areas include business/digital portfolio, fine arts, life skills/foods and technology/industrial arts. Universal themes such as change, problem solving, similarities and differences, and interdependency of systems provide the framework for the projects in which students are encouraged to think creatively, build their skills, and become self-motivated learners. Scheduling of Project Connect classes provides for flexibility of time so that students can work on the projects, attend programs, and go on field trips. This course is open to 9th graders and students must apply for Project Connect through the registration process in the 8th grade. Upon completion, students gain an understanding of key concepts in Geometry, similar to those found in Geometry MAY 1010, which are necessary for future mathematics courses, and are also necessary in many other fields of study.

GEOMETRY CONCEPTS MAY 0901 5 credits 9, 10, 11, 12

Prerequisite: • Algebra I Concepts or Algebra I

This course is similar to Geometry (MAY 1010), but more time is allotted to explore basic concepts and to practice geometric skills.

GEOMETRY MAY 1010 5 credits 9, 10, 11, 12

Prerequisite: • Algebra I

- A in Algebra Concepts
- Teacher's recommendation

This course includes the undefined terms, basic definitions, postulates, and theorems of geometry. Topics include: angles, parallel and perpendicular lines, congruent triangles, applications of congruent triangles, similar polygons, right triangles, circles, areas of polygons and circles, areas and volumes of solids, the coordinate plane, the distance and midpoint formulas, the slope of a line, parallel and perpendicular lines in the coordinate plane, the equation of a line, and mathematical modeling. Throughout the course, students are asked to do proofs and to apply geometric facts and reasoning to problem solving. Transformations, including reflections, translations, rotations, and symmetry may also be included in the course.

GEOMETRY HONORS MAY 1020 5 credits 9, 10, 11, 12

Prerequisites: • A in Algebra I

- Teacher recommendation

This geometry course uses a more rigorous approach. Starting from a few postulates, as Euclid did, the student develops a body of interesting geometric results. Students are expected to do proofs, as well as critique the proofs offered by other students. Topics to be covered include deductive and inductive reasoning, parallel lines and planes, congruence, quadrilaterals, similarity, circles, construction, area of plane figures, right triangles, surface areas and volumes of solids and coordinate geometry.

ALGEBRA 2 CONCEPTS MAY 1100 5 credits 9, 10, 11, 12

Prerequisite: • Geometry or Geometry Concepts

This course is similar to Algebra 2 (MAY 1110), but more time is allotted to explore basic concepts and to practice algebraic skills.

ALGEBRA 2 MAY 1110 5 credits 9, 10, 11, 12

Prerequisite: • Successful completion of Geometry

- Teacher recommendation

The aim of this course is to provide some insight into the nature of mathematical thought as well as to prepare the students to perform certain manipulates with facility. Knowledge of the number system is extended to include complex numbers. Included in the course are the function concept and the linear function, quadratic functions and quadratic equations, systems of equations in two and three variables, exponents and logarithms, sequences and series, and the binomial theorem. Problems involving data analysis and mathematical modeling are included. Throughout the course, students are asked to apply skills and concepts to problem solve. Graphing calculators will be used as part of instruction.

ADVANCED PLACEMENT CALCULUS AB MAY 1130 5 credits 10, 11, 12

Prerequisite: • B in Math Analysis H or A in Math Analysis
 • Teacher recommendation

This course deals with differential and integral calculus. It is equivalent to a first semester, college-level calculus offering. A broad range of topics is covered with great depth and rigor. Included is a study of functions, limits, continuity, derivatives, differentials, integration, rate of change, areas, the Fundamental Theorem of the Integral Calculus, methods of integration, and the calculus of transcendental functions (exponential, logarithmic, and trigonometric). The importance of calculus as a tool for problem solving is emphasized. The computer and/or graphing calculator are used as part of instruction.

ADVANCED PLACEMENT CALCULUS BC MAY 1131 5 credits 10, 11, 12

Prerequisite: • A in Math Analysis H
 • Teacher recommendation

This course is equivalent to a two-semester, college-level calculus offering. This course will also include delta epsilon proofs, length of a plane curve, areas of a surface of revolution, work, fluid pressure and force, the hyperbolic functions, improper integrals, sequences and series, convergence tests, the comparison test, conditional convergence, power series, Taylor and MacLaurin series, applications using Taylor series, and differentiation and integration of power series. The computer and/or graphing calculator are used as part of instruction.

**ADVANCED PLACEMENT STATISTICS/
DISCRETE MATHEMATICS** MAY 1230 5 credits 11, 12

Prerequisites: • B+ in Math Analysis Honors or A+ in Math Analysis
 • AP Calculus or Calculus (completed or concurrent)
 • Teacher recommendation

This course will strengthen students' quantitative reasoning ability. The study of descriptive statistics, which began in Math Analysis, is continued and progresses to the study of inferential statistics. The computer and graphing calculator are used as part of instruction. This course also emphasizes the wide range of contemporary applications of mathematics. The power of mathematics is illustrated by examining a variety of problems that can be modeled and solved by analytical and quantitative means. Students will develop the capacity to think logically and communicate this thinking both verbally and in writing. Topics will be selected from proof and recursion, logic, patterns and games, management science, social choice and decision-making, and cryptography.

SAT REVIEW MATHEMATICS MAQ 0003 1.25 credits 10, 11, 12

Prerequisite: • Geometry

This course prepares students for the mathematics section of the PSAT and SAT examinations. It emphasizes arithmetic, algebraic and geometric skills, and problem solving. It familiarizes students with the format of the tests, types of questions asked, and strategies for successful test taking.

COMPUTER SCIENCE: VISUAL BASIC MAY 0012 5 credits 10, 11, 12

This is a full year course on computer programming using the Visual Basic language. Visual Basic is an object-oriented programming language that uses graphical user interface. The course includes initially the use of text boxes, option buttons, check boxes, frames, images, lines, shapes, menus, common dialogs, list boxes, and combo boxes. Topics included are: event procedures, manipulating control properties, variable usage, selection structures, looping structures, user-defined subroutines and functions, control arrays, variable arrays, sorting and searching algorithms, user-defined types, file management, database management, drag and drop techniques, graphics, multiple forms, and animation.

COMPUTER SCIENCE 1: VISUAL BASIC MAS 0014 2.5 credits ⇆ 9, 10, 11, 12

This course is an introduction to programming using the Visual Basic language. Visual Basic is an object-oriented programming language that uses graphical user interface. The course includes initially the use of text boxes, option buttons, check boxes, frames, images, lines, shapes, menus, common dialogs, list boxes, and combo boxes. Topics included are: event procedures, manipulating control properties, variable usage, selection structures, looping structures, and user-defined subroutines and functions.

COMPUTER SCIENCE 2: VISUAL BASIC MAS 0015 2.5 credits ⇆ 9, 10, 11, 12

Prerequisite: • Computer Science 1

This course further develops programming skills using the Visual Basic language. Topics included are: control arrays, variable arrays, sorting and searching algorithms, user-defined types, file, management, database management, drag and drop techniques, graphics, multiple forms, and animation.

INTRODUCTION TO JAVA MAS 0016 2.5 credits ⇆ 9, 10, 11, 12

Prerequisite: • Computer Science 1

This course is an introduction to object-oriented programming, using the Java language. The language is widely used in industry and higher education. Topics included are: variable usage, input/output, selection structures, looping structures, user-defined functions, recursion, random numbers, classes, and file management.

ADVANCED PLACEMENT COMPUTER SCIENCE: JAVA MAY 0017 5 credits ⇆ 10, 11, 12

Prerequisite: • Introduction to Java or B+ in Math Analysis Honors or A+ in Math Analysis
• Teacher recommendation

This course is a full year mathematics elective that applies object-oriented programming concepts taught in Introduction to Java to more complex abstract data structures. The course will focus on the creation, manipulation, and analysis of abstract data structures such as stacks, queues, linked lists, and binary trees. Additionally, the course will stress analysis of algorithms and problem solving.

MATH STRATEGIES MAS 0004/5 2.5 credits 9, 10, 11, 12

Students who need remedial work in mathematics will be placed in the Math Strategies class. Placement in these classes will be based on the results of tests and recommendations. See page 4.

SCIENCE

The study of science plays a key role in the development of higher-order thinking skills. It enables students to think critically when dealing with the concerns of everyday life. Three years of science study are required for graduation. Six credit courses include an extended-period lab component.

NOTE: For freshmen entering 2010, 15 credits including at least five credits in Biology/Life Science and one additional laboratory/inquiry based science course which shall include chemistry, environmental science or physics.

BIOLOGY SCY 0910 6 credits 9

This course includes the study of living things, their diversity, and how they function. It is geared toward the student who wants a general knowledge of the interactions between the living and non-living world. Some discussion of biochemistry and molecular biology is included. An earth science component is included that relates to biological interactions. Another important component is laboratory work related to living and preserved materials.

BIOLOGY HONORS SCY 0920 6 credits 9

- Prerequisites:
- B in Concepts of Earth Science or an A in Foundations of Earth Science
 - Teacher recommendation
 - Geometry or concurrent enrollment in geometry

This course is a rigorous approach to the study of living things. Emphasis is on biochemistry and molecular biology as well as the unifying concepts applicable to all life forms. A study of the diversity of life and its interaction with the environment is undertaken. An earth science component is included that relates to biological interactions. Laboratory work involves living and preserved materials as well as chemical materials and scientific instruments. Comprehensive lab reports are required.

PROJECT CONNECT PROGRAM IN BIOLOGY SCY 0960 6 credits 9

The Project Connect Program consists of courses in English mathematics, science and social studies enriched through the use of projects that integrate the learning in the regular curriculum with each other and with selected elective areas. The linked elective areas include business/digital portfolio, fine arts, life skills/foods and technology/industrial arts. Universal themes such as change, problem solving, similarities and differences, and interdependency of systems provide the framework for the projects in which students are encouraged to think creatively, build their skills, and become self-motivated learners. Scheduling of Project Connect classes provides for flexibility of time so that students can work on the projects, attend programs, and go on field trips. This course is open to 9th graders and students must apply for Project Connect through the registration process in the 8th grade. Upon completion, students gain an understanding of key concepts in biology, similar to those found in Biology SCY 0920, which are necessary for future science courses and fields of study.

CHEMISTRY CONCEPTS SCY 1100 6 credits 10, 11, 12

- Prerequisites:
- Teacher recommendation
 - Geometry or Geometry Concepts (completed or concurrent)

This is a course in conceptual chemistry. It includes the study of matter, its composition, properties, and interactions, as described by modern chemical theories, and a discussion of how these principles apply to contemporary issues. It also includes some review material and connections with biology, physics and Earth science. Teacher lectures and demonstrations are supplemented with laboratory activities in which students work with chemical materials and scientific instruments.

CHEMISTRY SCY 1110 6 credits 10, 11, 12

- Prerequisites:
- Successful completion of Biology or Biology H AND teacher recommendation
 - Geometry or concurrent enrollment in Geometry

This is a comprehensive course in chemistry. It includes the study of matter, its composition, properties, and interactions, as described by modern chemical theories, and a discussion of how these principles apply to contemporary issues. While intended for all college-bound students, the treatment is sufficiently theoretical and mathematical to meet the needs of students who later choose to enter a career in a science-related field. Teacher lectures and demonstrations are supplemented with laboratory activities in which students work with chemical materials and scientific instruments.

CHEMISTRY HONORS SCY 1120 6 credits 10, 11, 12

- Prerequisites:
- B in Biology H or an A+ in Biology
 - Algebra 2 or concurrent enrollment in Algebra 2 Honors
 - Teacher recommendation

This chemistry course is for the science-oriented college-bound student. It includes a study of the composition of matter, its properties, and how matter undergoes change and interacts with other kinds of matter. The unifying principles of the subject are developed in a logical way with the inclusion of extensive laboratory work. Students handle various chemical materials and learn to use scientific instruments. This offering involves a rigorous mathematical component and includes an introduction to concepts in physics. This course also includes a laboratory component in which students work with chemical materials and scientific instruments. Comprehensive lab reports are required for laboratory activities.

PHYSICS CONCEPTS SCY 1200 6 credits 11, 12

- Prerequisites: • Chemistry or Chemistry Concepts
• Algebra II or Algebra II Concepts (completed or concurrent)

This is a conceptual physics course. Topics explored in this course include the study of motion, forces, energy, work, machines, waves, heat, electricity and magnetism. Real life applications are provided for each concept explored. Also connections to biology, chemistry, and earth science are made throughout the course. Teacher lectures and demonstrates are supplemented with laboratory activities making physics concepts come alive.

PHYSICS SCY 1210 6 credits 10, 11, 12

- Prerequisites: • Algebra 2 or concurrent enrollment in Algebra 2
• Chemistry or concurrent enrollment in Chemistry
• Teacher recommendation

This course is designed to offer students an introduction to the concepts of physics, including motion, forces, optics, waves, light, thermodynamics, electricity, and magnetism. Laboratory work and problem-solving techniques are stressed. Thorough preparation in mathematics prior to entry into this course is recommended, especially in Algebra; an understanding of simple trigonometric principles is helpful although not required.

PHYSICS HONORS SCY 1220 6 credits 10, 11, 12

- Prerequisites: • B in Chemistry H or A in Chemistry
• B in Math Analysis or concurrent enrollment in Math Analysis H
• Teacher recommendation
• Concurrent enrollment in Chemistry Honors
• Teacher's recommendation and supervisor's approval.

Physics Honors is approached using advanced mathematical methods to prepare students for a more rigorous scientific program of studies in college. This physics course is for the science-oriented college-bound student. Major units addressed are electricity and magnetism, optics, classical mechanics, wave theory, and, if time permits, relativity. Students are expected to use sophisticated problem-solving and critical-thinking skills.

ENVIRONMENTAL SCIENCE SCY 1240 6 credits 11, 12

- Prerequisites: • 3 years of laboratory science

This course is an introduction to various aspects of environmental science, policies and studies. Specifically, this course examines the risks associated with types of growth in a developing world; the environmental impact of population growth; resource identification, acquisition, extraction and uses; and renewable and non-renewable sources for power. Emphasis is placed on a holistic approach to environmental science using laboratory exercises, environmental surveys, and class discussions to reinforce scientific and political principles. This course will provide students the background information necessary to make informed decisions related to environmental issues.

ANATOMY AND PHYSIOLOGY SCS 0004 3 credits 11, 12

- Prerequisite: • 3 years of science

This semester course is an extensive biological study that includes topics such as biochemistry, animal cell structure and differentiation, tissue complexity, mammalian organs, and organ systems. Students will learn the structure and function of individual body systems and how they are integrated. Students will complete extensive laboratory work and dissection will be an integral part of this course.

FORENSIC SCIENCE SCS 0001 2.5 credits 11, 12

Prerequisites: • 2 years of science

The Forensic Science course will cover many of the most accessible topics that students can recreate in a lab situation including: fingerprinting, DNA analysis, chromatography and collection of evidence. This involves first learning about how to analyze a crime scene, then looking at a crime simulation to try and put their new skills to work. Current techniques, as well as modern scientific equipment, will be covered. Students will analyze historic cases and how they may have been solved if they happened today. In addition to standing on its own, Forensic Science may be linked through activities and projects with Criminal Justice, already being taught in social studies.

OCEANOGRAPHY SCS 0002 2.5 credits 11, 12

Prerequisites: • Two years of science

In this course, students study the phenomena of the oceans. It is intended to be an introduction to the physical, chemical, biological, and geological aspects of the greater portion of our earth's surface. Group work, projects and discussions generated by students will be the major vehicle for learning the science behind oceanography.

SCIENCE AND SOCIETY SCS 0003 2.5 credits 11, 12

Prerequisites: • Two years of science

This course utilizes a seminar approach. It involves discussions, debates and research of ethical, political, and social issues related to science and technology. It provides an excellent opportunity for students to gain a greater understanding of science and its role in our society, while developing critical thinking and inquiry skills.

ADVANCED PLACEMENT BIOLOGY SCY 1130 6 credits 11, 12

Prerequisites: • B+ in Biology H
• B+ in Chemistry H
• Teacher recommendation

The Advanced Placement Biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. Although they may vary somewhat from year to year, the topics covered generally include biochemistry and molecular biology, evolution, anatomy and physiology, ecology, global issues, plant structure and function, and Mendelian and non-Mendelian genetics. It is recommended that AP Chemistry be taken prior to AP Biology. An important component of this course is laboratory work related to living and preserved materials.

ADVANCED PLACEMENT CHEMISTRY SCY 1230 6 credits 11, 12

Prerequisites: • B+ in Chemistry H
• B+ in Math Analysis or concurrent enrollment in Math Analysis Honors
• Teacher recommendation

This course is designed for the student who wishes to pursue a rigorous, college-level course in chemistry. Topics included are atomic theory, chemical bonding, stoichiometry, kinetics, thermodynamics, and equilibrium. In addition, the physical and chemical properties of simple organic compounds are studied. This offering involves rigorous mathematical content and includes a laboratory component. As a course requirement, a portfolio of laboratory work must be kept.

ADVANCED PLACEMENT PHYSICS, Course C SCY 1231 6 credits 12

Prerequisites: • B+ in Physics H
• B+ in Calculus or B in AP Calculus
• Teacher recommendation

The purpose of this course is to simulate, as closely as possible, the curriculum and lab experiences of two, one-semester college level courses for science majors: Classical Mechanics and Electricity & Magnetism. This course is designed for the student who wishes to pursue a rigorous, highly quantitative, program of study that includes calculus-dependent analyses of mechanical, electrical and magnetic systems.

THE ARTS

VISUAL AND PERFORMING ARTS AND PRACTICAL ARTS *

*Courses in this section meet the New Jersey graduation requirements for the Visual and Performing Arts and/or the Practical Arts. Departments include Business Education, Technology/ Industrial Arts, Family and Consumer Sciences, Music, and Art.

BUSINESS EDUCATION

Business education today strives to prepare students to enter post secondary education business programs and the business world as well as to provide students with the skills necessary to use technology application programs to organize and present information. The department offers a variety of courses that reflect these goals and serve a broad range of student goals and needs. Business education courses also provide basic financial literacy concepts that students can apply to their personal and professional life as well as to their understanding of the global economy and issues. Application software is taught both as a separate skill area and as an integrated part of the business education courses. Software programs include those programs needed to present ideas, information, and write reports. Students who plan to major in business or own and/or operate their own business one day should consider a sequence of business education courses. All courses are project and hands-on activity oriented with many opportunities to solve business world problems. Included in the total business education program is a look at the global business perspective and its effect on American business and the global market. All these courses can be used to fulfill the New Jersey Practical Arts graduation requirements as indicated.

PROJECT CONNECT PROGRAM IN BUSINESS VPQ 0062 1.25 credits ↔ 🎵 9
This course is part of the Project Connect integrated learning program. Refer to descriptions under English, math, science and social studies for further details.

CAREER PLANNING/DIGITAL PORTFOLIO PAY 0005 2.5 credits ↔ 9, 10, 11, 12
Career Planning/Digital Portfolio is a course that explores career planning activities and the development of a digital student portfolio for use as part of the college application process and/or career employment opportunities. Search techniques with lots of hands-on activities, as well as opportunities to interact with guest speakers, will be used to explore a variety of career clusters. A variety of resources available in hard copy and electronic will be part of the daily course work. As a result of techniques developed in this course, students produce a sample digital portfolio that can be used for interview purposes. This course is process and project oriented and may include opportunities for career shadowing. A familiarity with computers is strongly suggested.

BUSINESS TECHNOLOGY/BUSINESS LAB PAS 0004 2.5 credits* ↔ 9, 10, 11, 12
This course is for the student interested in exploring the field of business or perhaps in owning and operating their own business one day. The class focuses on the economic principles, business techniques and financial literacy concepts that are used in today's marketplace as well as workplace, online, and technical communication information and skills. Content will focus on all aspects of a business enterprise, such as marketing, sales, customer support, financing, human resources, legal services, information technology (IT), accounting leadership, and research and development. The business laboratory environment simulates entrepreneurial thought processes and functions as an actual business, centering on the day-to-day operation of a real-world business. Actual business problems will be solved while providing products and services to the school and community. Activities include running a school store and extend into the business world with speakers and field trips as well as a look at the global perspective. *May be repeated for credit.

BUSINESS MANAGEMENT PAS 0003 2.5 credits ⇆ \$ 9, 10, 11, 12
Business Management provides instruction that enables students to acquire an understanding of basic economic concepts and financial literacy along with a general understanding of American business. Students will explore the roles of managers in every aspect of a business organization. Management and its effect on consumers and producers are reviewed from both the historical and contemporary perspectives. Students are held accountable for the understanding of and the application of economic, management, and financial theory to personal and business situations. They will apply the theoretical concepts of management, business communication, marketing, financial recording and organization in the development of a business entity. Projects and information gained in this course provides opportunities to develop personal and business financial literacy skills.

ENTREPRENEURSHIP PAS 0006 2.5 credits ⇆ 9, 10, 11, 12
This course is designed for students with a desire to explore business opportunities in the future. Basic economic principles affecting local and global issues are included. Students research, plan, and learn how to finance a small business. Successful entrepreneurs are studied, and their businesses are evaluated. Legal aspects of operating a business and their relationship to local ordinances, laws, and taxes are covered. Students also develop an in-depth business plan including all necessary research and planning. The entrepreneurial project, consisting of a student-run company, provides a work based learning experience through a student-run business.

BUSINESS LAW PAS 0002 2.5 credits ⇆ 9, 10, 11, 12
This course provides an understanding of the legal rights and duties of a business. Students develop an understanding of the complexity of the law and the legal implications of situations as they arise in daily life and the business world. Course content includes the study of contracts, crimes, torts, criminal procedures, jury-trial procedures, civil procedures, and laws concerning minors and consumers.

INTRODUCTION TO ACCOUNTING PAS 0008 2.5 credits ⇆ 10, 11, 12
This course seeks to establish an understanding and competency in the use and operation of the “Double Entry Bookkeeping System” and the “Accounting Cycle”. Students will be able to record basic business transactions in accounting forms and make the appropriate adjusting entries. Financial reports will be prepared and the ability to make business decisions can be demonstrated through the use and interpretation of these financial documents. The use of computer generated automated accounting systems will be introduced following the understanding of the basic accounting concepts. This course provides an excellent jump start for students planning to major in business in college.

ADVANCED ACCOUNTING PAS 0001 2.5 credits ⇆ 10, 11, 12
Prerequisite: • Introduction to Concepts and Principles of Accounting
This course is the continuation and expansion of Introduction to Concepts and Principles of Accounting. Students will have opportunities to record in special journals and subsidiary ledgers. They will record financial information for a merchandising business, prepare worksheets, maintain inventories and prepare financial statements. Finally, the students will review the internal control of cash receipts and disbursements. The use of computer generated automated accounting systems will be introduced following the understanding of these advanced accounting concepts.

INFORMATION PROCESSING AND KEYBOARDING PAS 0007 2.5 credits ⇆ 9, 10, 11, 12
This course combines skill development and software application experiences to help students to understand and to apply technology to everyday situations and to prepare for future situations in college and the world of work. Students in this course will have opportunities to improve their keyboarding skills at the same time that they are exposed to project work using a number of different software products and tools. Typical business and college application software packages such as Powerpoint and Publisher will be covered as well as the use of the spreadsheets, graphs, charts and tables to organize and present information and data. This course is a semester offering open to all students.

TECHNOLOGY/INDUSTRIAL ARTS EDUCATION

Every facet of daily life is influenced by the rapid changes taking place in technology. It is advantageous for the student to experience and apply new technology in as many areas of study as possible. The Technology/Industrial Arts Department provides the student an opportunity to explore and evaluate these changes within its course offering. All courses within the Technology/Industrial Arts Department provide the student with an opportunity to learn and apply the design process as well as pre-engineering concepts. Students are encouraged to use individual creativity and design ideas when working toward project completion. Courses in this area offer the students opportunities to develop an understanding and appreciation of past, present, and future technologies. Courses in this section may be used to fulfill the New Jersey Practical Arts graduation requirement and/or in a few cases the Fine and Performing Arts graduation requirement.

All courses in the Technology/Industrial Arts Department are one semester offerings. Topics of study included are: Computer Aided Drafting and Design, Technology, Applied Technology, Electronics, Woodworking, Fine Metalworking, Web Design, and Photography. Some of the courses listed above have an introductory and advanced level. (See individual course titles for the levels offered.)

PROJECT CONNECT PROGRAM IN

TECHNOLOGY/INDUSTRIAL ARTS PAQ 0062 1.25 credits ⇄ 9

This course is part of the Project Connect integrated learning program. Refer to descriptions under English, Math, Science and Social Studies for further details.

INTRO TO COMPUTER-AIDED

DRAFTING & DESIGN PAS 0019 2.5 credits ⇄ 9, 10, 11, 12

Introduction to Computer Aided Drafting and Design (CADD) is a course that uses state-of-the-art hardware and CADD software such as AUTO-CAD-LT and PRO-DESKTOP to create and design project solutions. The application of critical thinking and problem solving skills to this design tool are stressed. The fundamentals of CADD are presented, including why and how CADD is used, types of CADD equipment, and proper drawing formats used in CADD. Basic drawing techniques such as orthographic, isometric, and perspective drawing are covered. Architectural drawing and scale model construction are introduced during the course. Career opportunities in this fast growing technological field are also explored. Individual creative design projects are incorporated to allow students to develop original ideas from design concept to a finished presentation.

ADVANCED COMPUTER-AIDED

DRAFTING & DESIGN PAS 0020 2.5 credits* ⇄ 9, 10, 11, 12

Prerequisite: •Introduction to CADD

Advanced Computer Aided Drafting and Design is a course intended to review and reinforce the skills learned in the Introduction to Computer Aided Drafting and Design course. In addition, it offers the student an opportunity to explore more specialized design areas of drafting in greater depth. Examples of possible areas of study are automotive design, electronic circuit design, and architectural design. Advanced Computer Aided Drafting and Design will provide all students with skills that are useful in day-to-day living, as well as provide knowledge that is indispensable for those that go on to engineering or art related studies. Advanced program command use and drawing protocols are stressed while allowing the student to use his/her individual design creativity. *May be repeated for credit.

INTRODUCTION TO WOODWORKING PAS 0021 2.5 credits ⇄ 9, 10, 11, 12
Introduction to Woodworking stresses fundamental tool processes and techniques, as well as basic machine operations. The selection and application of appropriate materials are stressed. This course offers the student an opportunity to design and fabricate projects, to develop efficient work habits, to solve design/construction problems, to learn and apply essential skills, and to incorporate safe working procedures. A large portion of the semester is dedicated to individual project design and fabrication. Students are encouraged to develop individual, creative project designs of interest to them.

ADVANCED WOODWORKING PAS 0022 2.5 credits* ⇄ 9, 10, 11, 12
Prerequisite: • Introduction to Woodworking
Advanced Woodworking builds upon the skills learned in Introduction to Woodworking. Basic woodworking procedures are reinforced and machine woodworking techniques are explored in depth. Students will have the opportunity to see individual project work progress from the design stage to finished product. In depth individual safety instruction is incorporated into the learning experience on a daily basis. The student has the freedom to explore those areas of woodworking that interest him/her most. Some examples of these areas are: cabinet making and furniture construction, woodturning, carving, laminating, upholstering, and combinations of these techniques. Interdisciplinary learning is encouraged and ideas and materials from other areas of study can be incorporated into project work.
*May be repeated for credit.

INTRODUCTION TO ELECTRONICS PAS 0034 2.5 credits ⇄ 9, 10, 11, 12
This course is based on the study of basic electronic theory and practice. The fundamentals of electronic circuits and design are emphasized. The student is expected to construct original projects and perform basic repairs on defective equipment. Safe work habits are emphasized.

ADVANCED ELECTRONICS PAS 0024 2.5 credits* ⇄ 9, 10, 11, 12
Prerequisite: • Introduction to Electronics
This course continues the study of electronic theory and practice. Areas covered include printed circuit construction and design. The student constructs various projects and has the opportunity to work and test equipment and other electronic devices. *May be repeated for credit.

PHOTOGRAPHY 1 VPS 0013 2.5 credits ⇄ 🎵 9, 10, 11, 12
This course is designed to introduce the student to the field of photography. Included are the principles of simple photographic theory and artistic expression, use and selection of cameras, use of special lenses and filters, and use of various types of film. Basic darkroom techniques of developing and enlarging are presented as well as an introduction to digital photography and computer imaging. A student portfolio and critiques of composition and technique are integral parts of the course. In order to complete course activities it is highly recommended that students have their own 35 mm cameras and/or have access to one for course activities.

PHOTOGRAPHY 2 VPS 0022 2.5 credits* ⇄ 🎵 9, 10, 11, 12
Prerequisite: • Photography 1
This course is designed to allow students who have completed Photography 1 to explore advanced techniques associated with the use of the camera and film development. Portrait and special artistic effects in photography are emphasized, along with advanced techniques related to darkroom procedures and the enlargement of photographs. Digital and imaging techniques are explored in further detail. Students critique their work and prepare a personal portfolio of their artwork. It is highly recommended that students have their own 35 mm cameras and/or have access to one for course activities. *May be repeated for credit only with teacher approval.

INTRODUCTION TO TECHNOLOGY PAS 0027 2.5 credits ⇄ 9, 10, 11, 12

This course emphasizes the design and problem-solving processes, the evolution of technology, and the systems approach to understanding technology. The course involves hands-on projects such as:

- crumble zone project, rough terrain vehicle,
- model rocket design and construction,
- scale model bridge design and building,
- air and land transportation projects,
- individual glider design and construction,
- dispenser design and construction, and
- aerodynamics and wind resistance.

In addition to utilizing design and problem solving processes and solutions, the course includes the development and creation of various technology projects. The areas of informational, physical, and mechanical technologies are explored through the application of design/problem solving activities that provide students with first-hand experiences in the application of technology. This course acquaints the student with the impact and importance of technology on the individual and society as well as the exploration of related careers. This course is open to students in grades 9-12 with no pre-requisites.

APPLIED TECHNOLOGY PAS 0028 2.5 credits ⇄ 9, 10, 11, 12

Applied Technology is a survey course including but not limited to the areas of computer-aided drafting, photography, plastics, print, stained glass, and basic electronics. Students will work on a number of hands-on projects while being exposed to the various areas explored throughout the course. Projects will be based on techniques developed during the semester and will reflect the design process as well as construction skills and techniques and safety in a lab setting. The student will have many opportunities to develop problem-solving and critical thinking skills while producing hands-on projects. The course is open to students in grades 9-12 with no pre-requisites.

FINE METAL WORKING PAS 0029 2.5 credits* ⇄ 9, 10, 11, 12

Fine Metal Working is a course designed to introduce the student to some of the basic operations necessary to take an idea from concept to finished product. Some of the areas that will be explored include but are not limited to: sheet metal development, decorative metalworking, metal finishing, and the mechanics of jewelry construction. Many skills will be developed as the student progresses through this course, including safety awareness, layout and design principles, computer use to generate drawings, cutting and assembly techniques as well as finishing techniques. Problem solving skills, the development of individual creativity, and lab safety will be stressed. *May be repeated for credit.

WEB DESIGN PAS 0030 2.5 credits ⇄ 🎵 9, 10, 11, 12

In this course students create web pages using various tools such as Front Page and Dreamweaver. This course provides an overview of HTML (hypertext markup language), a set of special instructions called tags or markups, specifying links to other documents. Web page displays will also be presented. Students learn how to import graphics and work with animated pictures. Students work on individual projects at their own pace and at their own level.

FAMILY AND CONSUMER SCIENCES

The Family and Consumer Sciences Department offers courses that feature practical applications and life-skills development, including career planning, on-the-job behavioral skills, personal financial literacy, and nutritional and well-being information. Topics include foods and nutrition, fashion, child development, family life, consumerism, interior design, relationships, and communication skills. All courses are one semester and can be used to meet the New Jersey Practical Arts high school graduation requirement.

PROJECT CONNECT IN FAMILY

AND CONSUMER SCIENCES PAQ 0063 1.25 credits ⇄ 9

This course is part of the Project Connect integrated learning program. Refer to descriptions under English, Math, Science and Social Studies for further details.

THE EVERYDAY GOURMET PAS 0031 2.5 credits ⇄ 9, 10, 11, 12

The student learns to change simple foods into gourmet meals with the use of imagination, seasoning, garnishes, and attractive presentation designs. Highlights include: party foods, pizza, pasta, and specialty items such as cream puffs, baked Alaska, crepes, soufflé and a cake decorating contest. Nutritional needs, consumer considerations, lab safety and sanitation, career opportunities, and scientific principles used in food preparation are emphasized. Meal planning design and management as well as nutritional revisions of recipes for lower saturated fats, sugars, and salt are addressed. Students use the computer to do a dietary analysis and a fast-food analysis.

GOURMET CUISINE PAS 0032 2.5 credits* ⇄ 9, 10, 11, 12

Prerequisite: • The Everyday Gourmet

This course provides opportunities for students to pursue more advanced cooking techniques and management skills in the making of international and regional cuisine as well as designing entertainment menus. Using a variety of resources, the student participates in planning and implementing individualized and group projects while practicing lab safety and sanitary practices. Highlights include: international cuisine, party planning and executing, and developing expertise in making foods such as meringues, yeast breads, pies, cakes, low-fat foods, appetizers, hors d'oeuvres, etc. Special projects include integrated computer technology projects and kitchen space and design work. *May be repeated for credit.

FASHION TRENDS AND CLOTHING DESIGN PAS 0033 2.5 credits* ⇄ 9, 10, 11, 12

Prerequisite: • None

This course provides opportunities for students to explore aspects of fashion design such as color, line style, and how to get a “total” look as well as exposure to careers in the fashion field. Experiences are provided for wardrobe planning and selection, including appropriate attire for interviews and the workplace. This course includes the design and construction of student-selected craft and/or wardrobe projects. Issues related to how to operate equipment correctly and safety is stressed. Current fabric types, finishes, laundering, and construction techniques are introduced. Student projects are selected in accordance with an analysis of individual interests and needs. *May be repeated for credit.

INTERIOR DECORATION AND DESIGN PAS 0037 2.5 credits ⇆ 9, 10, 11, 12

Prerequisite: • None

This course introduces students to the principles of designing interior space and furnishing it. Students learn about how individual needs and lifestyles influence housing choices. Elements and principles of design, space usage, and background areas such as floors, walls, windows, and lighting are examined. A look at furniture styles as well as the selection, care and use of accessories are also explored. A large part of the class will be hands-on activities and projects with many of them similar to those used in the interior design industry. Projects relating to floor plans, furniture arrangement, color selection, etc. provide topics for student projects. Instruction includes guest speakers, field trips as well as the use of computer software programs to create interior designs and to arrange a variety of spaces.

STRATEGIES FOR LIVING PAS 0035 2.5 credits ⇆ 9, 10, 11, 12

Prerequisite: • None

In this course, students are encouraged to meet life situations through hands-on projects that encourage critical and practical thinking along with an analysis of personal values and goals. Topics include communication skills, family, personality development, imaging, parenting, child development, careers, money management, financial literacy, and consumerism. Students may be involved in activities such as a mini-nursery school, a flour-baby project, a field trip, and project days.

INDEPENDENT LIVING PAS 0036 2.5 credits ⇆ \$ 9, 10, 11, 12

Prerequisite: None

This course is designed to help students solve the problems that one might encounter when living out on one's own after high school as well as during and after college. Topics of study include job hunting and on-the-job expectations, setting up an apartment, banking and insurance options, consumer and economic issues, basic tax information, financial literacy that includes budgeting personal time and income, and a look at simple meal planning and preparation. Also, included in the course is communication skill development as well as ways to deal with issues involving interpersonal relationships. A large part of the class centers on hands-on activities and projects along with possible guest speakers and field trips.

MUSIC

The music courses provide students with opportunities to experience, interpret and create music as well as opportunities to develop their performance and presentational skills. A number of music offerings may be repeated for credit as noted in their descriptions. Please note courses that require teacher approval and/or audition. All music offerings may be used to fulfill the New Jersey Visual/Performing Arts graduation requirement as indicated.

CONCERT CHOIR VPY 0003 5 credits* ♪ 9, 10, 11, 12

This course is open to any student interested in a group singing experience. A variety of music is studied and applied, based on the experience and performance level of the individuals in the class. Some evening rehearsals and performances may be required. *May be repeated for credit.

CONCERT BAND VPY 0002 5 credits* 🎵 9, 10, 11, 12

Prerequisite: • Previous Experience and/or teacher recommendation and/or audition

Concert Band provides the opportunity for students to perform all types of music and to develop knowledge, skills, and positive attitudes toward music. The program emphasizes instrumental musicianship and ensemble playing. Students should anticipate performances** at various times throughout the year. Students should expect to meet weekly in either lesson groups or individually with the instructor. During the marching band season Concert Band will **not** meet when the Concert Band period rotates and backs up to the lunch period. * May be repeated for credit.

**Failure to attend performances or rehearsals may adversely affect a student's proficiency and grade in this course.

BAND/MARCHING BAND VPQ 0011 1.25 credits* 🎵 9, 10, 11, 12

Prerequisite: • Concurrently enrolled in Concert Band

- Teacher recommendation and/or audition

Band is designed to expose the student to appropriate marching band music. Marching band activities for football games and competitions are held during the fall months. Marching practices will take place after school, in the evening or during part of the lunch block. Some limited marching practices may occur during the spring to prepare for trips and/or parades. Individual and small-group lessons, once per week, may be optional after discussion with parent, teacher, and music supervisor. This class will meet whenever the Concert Band period rotates and backs up with the lunch period during marching band season. * May be repeated for credit. **Failure to attend performances or rehearsals may adversely affect a student's proficiency and grade in this course.

BAND FRONT/STUDY VPQ 0002 1.25 credits 🎵 9, 10, 11, 12

Prerequisite: Recommendation or audition

This course is for one marking period only. It is designed for students participating in the color guard. Activities include marching routines and participation in field performances.

JAZZ IMPROVISATION VPY0009/VPS 0024 2.5 or 5 credits* 🎵 9, 10, 11, 12

Prerequisite: • Must already play an instrument and read music in standard notation.

- Audition and/or teacher's recommendation

The Jazz Improvisation class offers students the opportunity to perform music from the 1930's and 1940's Big Band Era all the way through to the contemporary music of today. The course includes the study and performance of a variety of jazz band literature, continued study of the student's individual instrument, and opportunities to further their knowledge in the area of general music. The student will be able to identify various styles of jazz as well as the mechanics of producing the sound instrumentally. This course will also allow for appropriate performance opportunities. This course may be taken for a semester or a full year and is open to students in grades 9-12. *May be repeated for credit.

INSTRUMENTAL WORKSHOP VPY 0005 5 credits 🎵 9, 10, 11, 12

Prerequisite: • Students must be learning a band instrument

This course is designed for the student with limited or no musical training as well as for experienced performers who do not wish to participate in an ensemble. Although Instrumental Workshop is normally a full year, students may move to the Concert Band course (0002) at mid-year with the recommendation of the instructor.

EXPLORING MUSIC AND TECHNOLOGY VPS 0016 2.5* credits 🎵 9, 10, 11, 12

This course is designed to offer all students experiences with the many facets of music. Through a hands-on approach, students review the rudiments of music and are provided basic instruction in theory, history, and the use of MIDI software (computers and music). A variety of styles of music will be discussed.

*May be repeated for credit with the recommendation of the instructor.

ORCHESTRA VPY 0008 5 credits* 🎵 9, 10, 11, 12

Prerequisite: • Ability to play an orchestral instrument
• Teacher recommendation and/or audition

The orchestra course is designed to develop the student's ability to perform in an orchestral setting. The course provides opportunities for students to develop self-confidence through performance, to improve listening skills, and to develop an awareness of musical performers, symphony orchestras, and great performance halls across the United States. Some evening rehearsals and performances may be required. Failure to attend performances or rehearsals may adversely affect a student's proficiency and grade in this course. *May be repeated for credit.

MUSIC ENSEMBLES VPS 0007 2.5 or 5 credits 🎵 9, 10, 11, 12

Prerequisite: • Students must already play an instrument at a proficient level and be able to read standard notational music (notes on a staff).
• Teacher recommendation and/or audition

Music Ensembles is a workshop course covering a variety of music beginning with the classical period. In addition to individual and small group performing, students will study the fundamentals of music, music theory, music composition and the historical background of music. Students should be proficient at an instrument and must be able to read standard notational music. This course can be taken for a semester or a full year. *May be repeated for credit.

MUSIC THEORY VPS 0019 2.5 * 🎵 9, 10, 11, 12

Prerequisite: • Play a musical instrument and/or have vocal experience or training
• Teacher recommendation

The study of music theory requires that the student uses and develops their intuition and insights into musical theory with their skill development and understanding of the patterns in music. Music Theory is a course that will provide the music student with a beginning level of music theory as well as prepare the student for entrance into more advanced levels of music theory work. This course provides both theory and application opportunities for students to develop musically. Music Theory may be taken for a semester or a full year and is open to students in grades 9-12. *May be repeated for credit with teacher recommendation.

ART

The Art Department offers a variety of courses that seek to provide young artists with opportunities to develop their personal style and to create art for their professional portfolio. The art courses provide students with opportunities to experience, interpret and create art as well as opportunities to develop their presentational and critiquing skills. The art offerings may be either semester or full-year as noted. In addition, a number of art offerings may be repeated for credit as noted. Art course offerings may be used to fulfill the New Jersey Visual and Performing Arts requirement.

PROJECT CONNECT PROGRAM IN ART VPQ 0061 1.25 credits ⇄ 🎵 9

This course is part of the Project Connect integrated learning program. Refer to descriptions under English, math, science and social studies for further details.

FOUNDATIONS IN STUDIO ART VPS 0009 2.5 credits 🎵 9, 10, 11, 12

This course is composed of three major areas: color theory, elements and principles of basic design, and drawing and painting. A variety of mediums are explored including computer graphics. This course is the foundation course in the art department and is the prerequisite for many art department offerings.

CRAFTS VPS 0010 2.5 credits 🎵 9, 10, 11, 12

Prerequisite: • None

This is a multi-faceted craft course including ceramics, metals, jewelry and textiles as well as other artistic experiences. Emphasis is placed on design, craftsmanship and safety in the studio. Various materials will be explored along with the proper handling of tools and equipment. Inventive solutions to assigned problems will be stressed throughout the course.

CERAMICS AND THREE-DIMENSIONAL FORMS VPS 0011 2.5 credits 🎵 9, 10, 11, 12

Prerequisite: • Foundations in Studio Art

This course includes the processes of hand building, wheel throwing, glazing and sculpture. It also covers related art history and aesthetics in three-dimensional art. This course asks the student to experiment with different mediums and different techniques to create projects.

DRAWING AND PAINTING VPS 0012 2.5 credits 🎵 9, 10, 11, 12

Prerequisite: • Foundations in Studio Art

This course develops the student's technical skills and provides opportunities for the student to experience and practice their skills. This course develops the student's technical skills using a wide range of media such as acrylics, watercolors, tempera, pencils, charcoal, and pen and ink.

PRINTMAKING AND COMMERCIAL ART VPS 0021 2.5 credits* 🎵 9, 10, 11, 12

Prerequisite: • Foundations in Studio Art

This course provides an overview of the commercial art areas such as advertising, illustration, fashion design and package design. It addresses printmaking techniques, which may include the following: intaglio prints, linoleum blocks, silk screening, collographs, and etchings. *May be repeated for credit.

GRAPHICS DESIGN VPS 0014 2.5 credits 🎵 9, 10, 11, 12

Prerequisites: • Foundations in Studio Art • Working knowledge of computers

This course allows students to learn the fundamentals of computer graphics design. Students learn the basics of Adobe Illustrator, a powerful vector based graphic design program. Through demonstration and projects, students learn to draw and design, using the tools and features of this program. Students create curves, lines, and shapes to make objects that can be colored, manipulated, moved, duplicated, scaled, and rotated. This is an opportunity to be creative and to have fun with a powerful, computer-based program in an emerging field in the arts.

DIGITAL IMAGING VPS 0015 2.5 credits* 🎵 9, 10, 11, 12

Prerequisites: • Photography 1 • Working knowledge of computers

This course provides students opportunities to learn and develop skill in the use of Adobe Photoshop, a powerful software application for color painting, photo retouching, and image creation and enhancement. This course will also provide opportunities for the student to integrate Flash software to create beautiful, resizable and extremely compact interfaces, and technical illustrations. Long-form animations, and other dazzling effects for print as well as web sites are included in this project based course. *May be repeated for credit with the recommendation of the instructor.

COMPUTER ANIMATION/FLASH VPS 0020 2.5 credits* 🎵 9, 10, 11, 12

Prerequisite: • A photo course or an art course or a computer science course or Web Design

This course introduces FLASH as a primary web design tool. Students will create animations using FLASH and combine elements together in Dreamweaver for web presentations. The class projects will cover the mechanics of image preparation with graphics, sounds, animation techniques, cinematic effects and interactivity. Students will design and implement websites on the school Intranet. The focus of this course will be on the creative and artistic aspects as well as the utilization of software programs. *May be repeated for credit with the recommendation of the instructor.

OPEN STUDIO–ADVANCED ART VPS 0017, VPD 0018, VPD 0018

2.5 or 5 or 10 credits* ♪ 10, 11, 12

Prerequisites: • Foundations in Studio Art plus 3 additional art electives or

- Foundations in Studio Art plus 2 art electives with teacher's recommendation

In this advanced course, art students work from their imagination and observations. They continue their investigation of materials and techniques to develop their individual style and expression. Portfolio development is available for those who plan to continue their art education in college. A museum/gallery experience is also included as an integral part of this course. This course may be taken for a semester, a full year, or a double period for the entire year. *If you select to take a double period, you may have two teachers and you will be graded separately by each teacher. These grades will appear on your report card. **May be repeated for credit.

ADVANCED PLACEMENT ART PORTFOLIO VPY 0021, VPY 0021*

5 credits** or 10 credits * ♪ 10, 11, 12

Prerequisites: • Foundations in Studio Art plus 3 additional art electives

- Foundations in Studio Art plus 2 art electives with teacher's recommendation
- Summer assignments must be completed prior to entrance into the course.

The AP Studio Art portfolios are designed for students who are seriously interested in the practical experience of art. AP Studio art is not based on a written exam: instead students submit portfolios for evaluation at the end of the school year. The College Board and/or Governor Livingston's Art Department will evaluate the portfolios.

AP Studio Art addresses three major concerns that are constants in the teaching of art:

(1) A sense of quality in a student's work; (2) the student's concentration on a particular visual interest or problem; and (3) the student's need for breadth of experience in the formal, technical, and expressive means of the artist. AP work should reflect these three areas of concern: quality, concentration and breadth. Students develop an Advanced Portfolio in conjunction with the Open Studio Advanced Art class. The AP portfolio usually requires two years of preparation. And, it is strongly suggested that students start in their junior year in order to complete the breadth of work required of the AP art student.

* If you select to take a double period, you may have two teachers and you will be graded separately by each teacher. These grades will appear on your report card. ** May be repeated for credit.

PHYSICAL EDUCATION

Physical education makes a unique and indispensable contribution to the lives of our young people. It promotes principles of good sportsmanship that build and develop desirable modes of behavior, character, and social interaction. Most important, the program develops a sense of pride and self-respect through physical development and achievement. Students develop an awareness of their own physical ability and how these skills transfer into daily life. The program also provides an appreciation of recreational activities that can be considered as leisure-time pursuits. Students are required to participate in Physical Education during each year of attendance.

PHYSICAL EDUCATION/HEALTH PES 0902, PES 1002, PEF 1101, PEF 1201

2.5 credits per semester 9, 10, 11, 12*

*Successful completion of Physical Education/Health is required for each year of attendance, including additional years.

During each nine-week period, the student is involved in up to two activities. An example of activities considered for each marking period include:

INTERDEPARTMENTAL AND OTHER PROGRAMS

ENGLISH LANGUAGE LEARNERS (ELL)

5 or 10 credits 9, 10, 11, 12

The goal of this program is to aid non-English speaking students in developing skills that they need to be successful in regular English-speaking courses. This program is required for students who are limited in English proficiency, as determined by local and state criteria. Emphasis is placed on listening comprehension and oral communication, while fostering reading and writing skills.

UNION COUNTY VOCATIONAL-TECHNICAL SCHOOL

↔ ♪+ 10, 11, 12

The opportunity to take technical programs while still in high school is offered through the Union County Vocational-Technical High School in Scotch Plains. Students who enroll in TECH spend part of their day at Governor Livingston H.S. completing their required academics and the rest of the day at TECH taking a technical career program. Shared-time students are accepted to attend TECH in their junior and senior years. **

Programs 15 credits

Allied Health
 Auto Collision Technology
 Auto Technology
 Baking
 Building Trades Technology
 Carpentry/Construction
 Child Development
 Commercial Art
 Computer Aided Drafting & Design
 Computer Repair
 Cosmetology (10, 11, 12) **
 Criminal Justice
 Culinary Arts
 Electrical Technology
 Graphic Communications
 Office Systems Technology

Special Education Programs 20 credits

Auto Mechanics
 Building Services
 Culinary Arts
 Exploring Careers (10th grade only) **
 Horticulture
 Masonry
 Office Occupations
 Supermarket Careers
 Welding

 Applied Mathematics*
 Applied Sciences*

*Two years of Applied Mathematics equal one year of mathematics and may fulfill the third year of the mathematics requirement. Two years of Applied Science equal one year of science at GLHS and may fulfill the third year of the science requirement after successful completion of biology and chemistry at Governor Livingston High School.

**Sophomores are only accepted into the Exploring Careers program in Special Education and in the cosmetology program. Students who wish to take Cosmetology must enroll in TECH for three school years in order to complete the required 1000 hours. Completion of 1000 program hours is required to take the NJ State Board of Cosmetology Licensing Exam. Juniors or seniors who enroll in Cosmetology will have to complete their required hours after graduation.

+ According to curriculum.

GOVERNOR LIVINGSTON HIGH SCHOOL 2010-2011

COURSES INCLUDED IN VISUAL, PRACTICAL OR PERFORMING ARTS GRADUATION REQUIREMENTS FOR ALL STUDENTS

♫ ENGLISH

Introduction to Theatre Arts
Acting Workshop

↔ ENGLISH

Backstage Theatre Workshop
Journalism
Journalism Workshop-Newspaper*
Journalism Workshop-Yearbook*
TV Production
Advanced TV Production

↔ MATHEMATICS

Computer Science
Computer Science 1
Computer Science 2
Intro to Java

AP Computer Science

↔ BUSINESS EDUCATION

Career Planning/Digital Portfolio
Business Technology/Business Lab
\$ Business Management
Entrepreneurship
Business Law

Introduction to Accounting

Advanced Accounting

Information Processing/Keyboarding

↔ TECHNOLOGY ED/INDUSTRIAL ARTS

Introduction to Technology

Applied Technology

Fine Metal Working

Intro to Woodworking

Adv. Woodworking

Intro to CADD

Adv. CADD

Photography 1*

Photography 2*

Web Design *

Intro to Electronics

Adv. Electronics

↔ FAMILY AND CONSUMER SCIENCES

The Everyday Gourmet

Gourmet Cuisine

Fashion Trends & Design

Strategies for Living

\$ Independent Living

Interior Decoration and Design

♫ MUSIC

Instrumental Workshop

Concert Choir

Concert Band

Marching Band

Band Front

Jazz Improvisation

Exploring Music Technology

Orchestra

Music Ensembles

Music Theory

♫ ART

Foundations in Studio Art

Crafts

Ceramics & 3D Forms

Drawing & Painting

Printmaking & Commercial Art

Graphics Design

Digital Imaging

Computer Animation/Flash

Open Studio-Adv. Art

AP Art Portfolio

OTHER PROGRAMS

↔ ♫ Union County Vocational/Technical
School +

Courses that fulfill the graduation requirement are marked

♫ (Visual & Performing Arts) ↔ (Practical Arts)

*** Teacher certification determines graduation
requirement credit given.**

+ According to curriculum

\$ Meets Financial Literacy graduation requirement

