



"We Build Futures"

Neshaminy School District

Langhorne, PA

Neshaminy High School



Photo By: Kathy Lichtner

Course of Study
2015 -2016



"Making Education First, and Making it Last"

Neshaminy School District, Langhorne, PA



Blue Ribbon National Schools of Excellence

History and School Tradition of Neshaminy High School

The seal of the Neshaminy High School is a duplicate of the seal of the Langhorne family. Clarence of Camden gave it to the Langhorne family in 1610. The original seal was black and silver, but the high school uses its own colors of red and blue.

The Arms contain a red cross on a blue background and three stringed bugle horns. The crest is a stringed bugle horn between two wings.

The high school has made an innovation. The seal of the Langhorne family has no motto, but as is customary in high schools, one was chosen from several submitted for approval. "Non Sibi Sed

Scholae" was accepted and added to the seal. This Latin Motto means, "Not for Self but for School."

The first school in Langhorne, according to Bucks County History, was established in 1836. The Junior-Senior High School was organized in 1946 when the five districts of Langhorne, Middletown Township, Penndel, Langhorne Manor, and Hulmeville joined for the purpose of adding a larger, more modern section to the Cherry Street School. With the addition of Lower Southampton Township to the jointure, it was possible to begin the development of the Neshaminy High School campus.

Mission Statement

Neshaminy is dedicated to empowering students to become accountable, creative, self-aware, and productive citizens who utilize the knowledge, the skills, the social consciousness and the desire for continuous learning. Our Neshaminy community has a proud tradition of integrating its people, its programs, and its resources.

Beliefs

- Life-long learning is essential for success in a changing society.
- Self-esteem is directly related to success.
- Education of the student is a shared responsibility of school, family, individual and community.
- Truth, honesty, integrity, and an acknowledgement of diversity are the cornerstones of responsible citizenship and ethical conduct.
- All have the right to work and study in a secure environment that fosters intellectual, social, emotional, and physical growth.
- All people have the need, ability, and right to learn.
- Students are one of our community's most valuable assets.
- Every individual has inherent worth.
- Achievement is realized through hard work, creativity, and dedication to life-long learning.

Equal Educational Opportunity

"Neshaminy School District is an equal opportunity Education Institution and will not discriminate on the basis of age, race, color, national origin, sex, religion and/or handicapping condition in its activities, programs, or employment practices as required by Title IV, Title IX, and section 504."

For information regarding Civil Rights or Grievance Procedures, contact Ms. Hinterberger, Director of Human Resources, 2001 Old Lincoln Highway, Langhorne, PA, 19047, 215-809-6606.

General Information

This catalog is a valuable reference manual for students, parents, and school personnel actively involved in curriculum planning. It is a complete guide to the possible course offerings at Neshaminy High School. Each department has described its specific course offerings, highlighting the chief components of each course.

Please understand that final decisions regarding the actual offering of any particular course for the 2015-2016 school year will depend upon enrollment and budget constraints. Therefore, not all classes listed in this catalog will run every school year.

Planning an individual student's high school course of study demands a cooperative effort between home and school. The course of study that a student pursues in high school should reflect his or her aspirations, achievements, and aptitudes. The courses at Neshaminy High School provide students with many opportunities to meet their educational needs. Students are encouraged to select courses that will be academically stimulating and personally enriching. In selecting particular courses, the following criteria should be considered:

- Does the course meet the high school graduation requirements?
- Does the course provide an outlet for interests in specific subject areas?
- Does the course provide a background for post high school plans leading to career options?
- Does the course meet post-secondary institution entrance requirements specific to the school in which the student is interested?

College Admission Requirements

Minimum graduation requirements should not be confused with college admission requirements. District graduation requirements may not fulfill entrance requirements for all colleges. It is imperative that students review the specific entrance requirements for the colleges on their personal application list. Students planning to attend college after graduation should work closely with their guidance counselor in selecting courses each year. Colleges review the following criteria to determine admission to their school:

- Rigor of the high school transcript
- Grades achieved in College Prep Courses
- SAT/ACT Scores
- Letter(s) of Recommendation
- Personal Writing Sample/Essay
- Grades in All Courses
- Class Rank

Planning for the World of Work

Students planning to enter the business world immediately after graduation from high school may wish to concentrate not only on the courses required for high school graduation, but also in their individual area of interest when selecting Elective Courses.

Students wishing specific skill preparation while in high school may choose to attend Bucks County Technical High School (BCTHS), which has specific application procedures. Contact a Guidance Counselor or the Technical School at 215-949-1700 for further information.

Graduation Requirements

Credits toward graduation requirements are earned beginning in Grade 9 with each successfully completed course. A Course's Credit Value is determined as follows:

Courses that meet five or more periods per six-day cycle.....	1.0 Credit
Courses that meet three days in a six-day cycle.....	0.5 Credit
Courses that meet for one semester.....	0.5 Credit

Graduation requirements include both a minimum number of total credits along with a minimum number of credits in particular Content Areas

Discipline	Neshaminy Graduation Minimum Requirements per Discipline	Suggested College Admission Requirements
English	4 Credits	4 Years
Social Studies	4 Credits	3-4 Years
Mathematics	3 Credits	3-4 Years
Science	3 Credits	2-4 Years
World Language	No Requirement	2-4 Years
Health	0.5 Credit	
Physical Education	1.5 Credits	
Arts or Humanities	1.0 Credit	1-4 Years
Electives	4.0 Credits	
Total	21.0 Credits	

Additional Graduation Requirements

- Students will complete a Graduation Project during their senior year. The purpose of the project is to assure that students are able to apply, analyze, synthesize, and evaluate information and communicate significant knowledge and understanding.
- Achieving a proficient level in Biology, Literature and Algebra 1 on the Pennsylvania Keystone Exams.
- A student who satisfactorily completes a special education program developed by an Individualized Education Program team shall be granted and issued a regular high school diploma.
- Students with an Individualized Education Program must also submit a *Transition Plan* and a *Responsible Plan for the Future* as part of the IEP.

Valedictorian/Salutatorian

The Valedictorian and Salutatorian of the graduating senior class are selected at the conclusion of the third marking period. The Valedictorian is the student with the highest rank in the senior class. The Salutatorian is the student with the second highest rank. The Valedictorian and the Salutatorian will have the distinct honor of leading the processional of graduates and delivering a speech at the commencement program.

The Quality Point Total used to determine the Valedictorian and Salutatorian will be calculated using the final course grades earned as a freshman, sophomore and junior in addition to all quarter grades from marking periods one, two, and three earned during the senior year.

Measuring Academic Achievement

Grading System

Students are evaluated using a Criterion-Referenced Alpha Grading System consisting of four Marking Period Grades and a Final Exam Grade in full year, 1.0 credit, courses. These five grades are combined to determine the Final Course Grade.

Grade Point Average

Grade Point Average (GPA) is a numerical representation of the Alpha Grading System. The Neshaminy GPA System employs a three-tier weighted scale giving additional value to Honors and Advanced Placement in the calculation of GPA and Class Rank. The Table below describes the weighted scale for each Final Course Grade and Course Level. Grade Point Average is calculated by dividing Cumulative Quality Points by the Credits Attempted.

Earned Grade	Non-Weighted Courses	Honors Courses	AP Courses
A	4.00	4.50	5.00
A-	3.67	4.17	4.67
B+	3.33	3.83	4.33
B	3.00	3.50	4.00
B-	2.67	3.17	3.67
C+	2.33	2.83	3.33
C	2.00	2.50	3.00
C-	1.67	2.17	2.67
D+	1.33	1.33	1.33
D	1.00	1.00	1.00
D-	0.67	0.67	0.67
F	0.00	0.00	0.00

Class Rank

Class rank is a numerical representation of the academic standing for a student in the Neshaminy School District. It represents both quality and quantity of work completed during a student's academic career in grades nine through twelve. Calculation of Class Rank is determined by ***total earned quality points***; not Grade Point Average. Quality Points are calculated by multiplying the Grade Value [from the Table above] by the Credits

Weighted GPA Calculation and Class Rank Determination are subject to a yearly credit maximum as indicated below. Credits earned beyond the maximum are excluded from GPA and Class Rank Determinations.

Grade Level	Maximum Credits used to Calculate GPA/Rank
Grade 9	6.5 Credits
Grade 10	6.5 Credits
Grade 11	6.5 Credits
Grade 12	6.5 Credits
Maximum Total GPA/Rank Credits	26.0 Credits

Cumulative GPA and Class rank will be calculated at the following times:

Grade 12 – Mid-year and End of the Year

Grade 11 – End of the Year

Grade 10 – End of the Year

Grade 9 – End of the Year

Scheduling Information

Seventh Major/Elective 3

Timeslot	Credits	Subjects
1	1	English
2	1	Social Studies
3	1	Mathematics
4	1	Science
5	1	Elective 1
6	1	Elective 2
7	0.5 & 0.5	Physical Ed/ Health
8	0	Lunch or Elective 3 (7 th Major)

Neshaminy High School runs an 8-period day over a 6-day cycle. Students are required to request and maintain a schedule of 6 credits plus Physical Education in Grades 9, 11, and 12 for a total of 6.5 Credits. Students in Grade 10 will maintain a schedule of 6 credits plus Health for a total of 6.5 Credits.

In lieu of lunch, students may request a seventh major [Elective 3]. The scheduling of such a request cannot be guaranteed. Moreover, this seventh major will not be included in the Cumulative Grade Point Average calculation or Class Rank determinations.

If a student requests a Seventh Major/Elective 3 and also requests a Lab Science, it is important to choose Electives that are resolvable as noted under the course description. These courses can be scheduled to meet only 5 of the 6-days in the cycle to accommodate the Science Lab Period.

Course of Study Planning

- Know your post-secondary education goals and requirements associated with them as you select courses
- Plan your Course of Study backwards; start with your Senior year and work back noting prerequisites
- Speak with your Counselor, Teachers and Administrators about your Course of Study plans
- Choose the Course, not the Teacher
- Consider the Course Level carefully; challenge but do not overwhelm yourself
- Consider your Alternate Courses carefully as the course may be on your schedule in September
- Elective Course Requests are processed in the following order: Seniors, Juniors, Sophomores, Freshman
- Seventh Credits (Elective 3) are scheduled last
- Schedule changes will not be honored unless there is an error or omission on the part of the school
- **Students are expected to remain in their selected courses for the full year**
- Elective Course Requests are not guaranteed because of time, personnel and facilities limitations
- Courses with minimal student requests and/or limited enrollment will not be scheduled

Scheduling Information

Academic Enrichment Program

Neshaminy High School's Academic Enrichment Program is available to those students identified as Gifted and maintaining a GIEP. The AE Program offers students the opportunity to explore their individual interests and talents along with the flexibility to explore Neshaminy High School's breadth of elective offerings. Academic Enrichment students with GIEP's should request courses from the following list of AE Options:

Grade 9	Course #1915 AE English 9 Honors
Grade 10	Course #4035 AE Honors Chemistry
Grade 11	Course #2001 AE AP United States History Course #2211 AE Contemporary US and World History Honors
Grade 12	Course #1205 AE AP English 12 Lit & Comp Course #1215 AE English 12 Honors

Learning Support Program

Neshaminy High School operates a Learning Support Program to meet the needs of identified exceptional students at the secondary level. Students who participate in this program work closely with their guidance counselor and special education teacher when selecting courses each year. Placement in this program for special instruction is based on the needs of each student as specified in his/her Individualized Education Plan (IEP).

Students enrolled in special education programs are offered opportunities to participate in all departments' course offerings on an equal basis with non-exceptional students. Specific program and course scheduling information is provided by the IEP Team at the time of Course Selection

NCAA Eligibility Requirements

Visit the High School Website Guidance Department for student athlete information.

Division I Schools 16 Core-Course Rule

In order to be eligible to participate in athletics and receive an athletic scholarship during your first year, you must complete the following requirements during high school:

- Graduate
- Complete these 16 core courses:
 - 4 years of English
 - 3 years of Math (Algebra 1 or Higher)
 - 2 years of Natural Science or Physical Science
 - 1 extra year of additional English, Math, or Science
 - 2 years of Social Studies
 - 4 additional courses from any category above
- Meet GPA and SAT/ACT minimums

Division II Schools 16 Core-Course Rule

In order to be eligible to participate in athletics and receive an athletic scholarship during your first year, you must complete the following requirements during high school:

- Graduate
- Complete these 16 core courses:
 - 3 years of English
 - 2 years of Math (Algebra 1 or Higher)
 - 2 years of Natural Science or Physical Science
 - 3 years of additional English, Math, or Science
 - 2 years of Social Studies
 - 4 additional courses from any category above
- Meet GPA and SAT/ACT minimums

Language Arts Department

Four credits of Language Arts are required for graduation from high school. Students are enrolled in the courses described below, and they should select a course according to their language ability.

All Language Arts courses contain elements of the fundamental strands of communication: reading, writing, listening, speaking, viewing, and visually representing. Because all Language Arts courses involve reading and writing, instruction and practice in critical thinking is inherent in Language Arts courses at all grade levels. The process of research is also integrated into all appropriate Language Arts courses.

All Language Arts courses are sequential, and students must pass prerequisite courses before enrolling in subsequent courses. Therefore, all students must pass English 9 before taking English 10, and students must pass English 10 before taking English 11.

Language Arts Course Sequence

Grade 9	Grade 10	Grade 11	Grade 12
Honors English 9 AE Honors English 9	AP Prep English 10	AP English 11 Language & Composition	AP English 12 Literature & Composition AE AP English 12
Honors English 9 AE Honors English 9	Honors English 10	Honors English 11	Honors English 12 AE Honors English 12
English 9	English 10	English 11	English 12
Foundations English 9	* Foundations English 10	Foundations English 11	Foundations English 12

Grade 9 Language Arts Courses

COURSE #1910

Grade Level: 9
NCAA Core: Yes

Honors English 9

Level: Honors

Credits: 1.0

Honors English is designed to accommodate those students whose reading, writing, and critical thinking skills have the potential to function at the college level. Instruction and practice in critical thinking is provided through the study of genres, including novels, plays, short stories, poems, and essays. In addition to writing assignments related to literature, students will learn research skills, and they will be required to write a research paper. Speaking skills, grammar, and vocabulary are also taught within this course. Honors English 9 will follow the curriculum guide for English 9; however, the pace of the course will be accelerated and the amount of independent reading and writing will increase. The English Department recommends that students who enroll in honors have at least a B+ in English and follow the summer reading requirements.

COURSE #1915

Grade Level: 9
NCAA Core: Yes
Prerequisite: Gifted Program Placement

Academic Enrichment (AE) Honors- English 9

Level: Honors

Credits: 1.0

The academic enrichment option for Honors English 9 follows much of the same syllabus and curriculum as the Honors English 9 throughout the year. Students will make advances in critical reading, writing, speaking, and listening skills. In addition, guest speakers and presentations will complement the curriculum. Summer reading is also a requirement.

COURSE #1920

COURSE # S1920 with modifications

Grade Level: 9
NCAA Core: Yes

English 9

Level: Non-weighted

Credits: 1.0

English 9 provides instruction and practice in critical thinking through the study of genres, including novels, plays, short stories, poems, and essays. In addition to a wide range of writing assignments, students will learn basic research skills. Speaking skills, vocabulary, and grammar are also taught within this course. Summer reading is a requirement.

Language Arts Department

COURSE #1950

Grade Level: 9

NCAA Core: No

Foundations English 9

Level: Non-weighted

Credits: 1.0

English 9 Foundations is a curriculum designed with an emphasis on skills and strategies that promote literacy. The course will include the reading of high interest literature, the writing of composition and the study of vocabulary and grammar. This course offers more individualized instruction and focus on reading and skill development for students.

Grade 10 Language Arts Courses

COURSE #1000

Grade Level: 10

NCAA Core: Yes

AP Prep English 10

Level: Honors

Credits: 1.0

English 10 AP Prep is designed for those highly motivated students who have plans to take either of the Advanced Placement courses in eleventh or twelfth grade. This course will follow the College Preparatory English 10 curriculum, but students will be oriented to the Advanced Placement methodology used. The course will introduce the techniques of reading, analysis, and writing integral to success in an Advanced Placement course. Teachers or counselors may recommend students for this course. Parents and/or students may request placement. The English Department recommends that students who enroll in this course have superior grades in English 9 and follow the summer reading requirements.

COURSE #1010

Grade Level: 10

NCAA Core: Yes

Honors English 10

Level: Honors

Credits: 1.0

Honors English is designed to accommodate those students whose reading, writing, and critical thinking skills have the potential to function at the college level. This course will follow the curriculum guide for English 10. However, the pace of the course will be accelerated and the amount of reading and writing will increase. Students who register for this course should be consistent, self-motivated workers. The English Department recommends that students who enroll in honors have at least a B+ in English 9 and follow the summer reading requirements.

COURSE #1020

COURSE # S1020 with modifications

Grade Level: 10

NCAA Core: Yes

English 10

Level: Non-weighted

Credits: 1.0

English 10 is designed for those motivated students who plan to go to college. This course involves an intensive focus on process writing, mechanics, grammar and usage, particularly as demonstrated through a variety of modes. Instruction and practice in critical thinking are provided through the study of genres, including novels, plays, short stories, poems, and essays. Outside reading is required. In addition to written literary analyses, students will learn research skills, and they will be required to write a research paper. Speaking skills are taught within this course. The English Department strongly recommends that students who enroll in this course have at least a B in English 9 & follow summer reading requirements.

COURSE #1040

Grade Level: 10

NCAA Core: No

Foundations English 10

Level: Non-weighted

Credits: 1.0

English 10 Foundations is a curriculum designed with an emphasis on skills and strategies that promote literacy. Students will read high interest literature. The writing process will be taught and reinforced. Foundations offers more individualized instruction and focuses on reading and skill development.

Language Arts Department

Grade 11 Language Arts Courses

COURSE #1100**Advanced Placement (AP) English 11 Language & Composition****Level: AP***Grade Level: 11**Credits: 1.0**NCAA Core: Yes**Additional: AP Test Fee*

This college-level Language and Composition course is intended for those students who wish to develop their writing skills and awareness of style, mode, purpose and rhetoric. The study of the structure of sentences, paragraphs, and larger discursive patterns introduces students to the semantic, structural, and rhetorical resources of language. Emphasis is on expository writing. Each Advanced Placement Language and Composition student must take the national Advanced Placement Test in May of his/her junior year. If the student achieves a high score, he/she may be entitled to advanced placement in college. The English Department recommends that a student who enrolls in this course have an A in English 10 and follow the summer reading requirements.

COURSE #1110**Honors English 11****Level: Honors***Grade Level: 11**Credits: 1.0**NCAA Core: Yes*

Honors English is designed to accommodate those students whose reading, writing, and critical thinking already function at the college level. This course will follow the curriculum guide for College Preparatory English. However, the pace of the course will be accelerated and the amount of reading and writing will increase. Students who register for this course should be consistent, self-motivated workers. The English Department recommends that students who enroll in this course have at least a B+ in English 10 and follow the summer reading requirements.

COURSE #1120**English 11****Level: Non-weighted****COURSE #S1120** with modifications*Credits: 1.0**Grade Level: 11**NCAA Core: Yes*

English 11 is for eleventh grade students who plan to attend a college or university. Students will be required to do outside reading and writing assignments. The research process will be reviewed, and students will be required to write a research paper. Components of the course involve critical reading of classic American literature and writing in various modes in response to these works. Essays are to be typed or computer-generated. Speaking skills are emphasized in this curriculum. The course includes activities designed to review and to strengthen SAT test-taking skills. The English Department strongly recommends that students who enroll in this course have at least a B average in English 10 and follow the summer reading requirements.

COURSE #1150**Foundations English 11****Level: Non-weighted***Grade Level: 11**Credits: 1.0**NCAA Core: No*

Foundations English is a curriculum designed with an emphasis on skills and strategies that promote learning and understanding. Students will read high-interest literature. The writing process and reading skills will be reinforced. Foundations offers more individualized instruction between student and teacher.

Grade 12 Language Arts Courses

COURSE #1200**Advanced Placement (AP) English
12 Literature & Composition****Level: AP***Grade Level: 12**Credits: 1.0**NCAA Core: Yes**Additional: AP Test Fee*

This college-level Literature and Composition course is offered to a select group of students with superior qualifications. Emphasis is on challenging reading, discussion, and writing. Each advanced Placement Literature and Composition student must take the National Advanced Placement Test in May of his/her senior year. If the student achieves a high score, he/she may be entitled to advanced placement in college. The English Department recommends that a student who enrolls in this course have an A in English 11 and follow the summer reading requirements.

Language Arts Department

COURSE #1205

Academic Enrichment (AE) Advanced Placement (AP) English 12

Level: AP

Credits: 1.0

Grade Level: 12

NCAA Core: Yes

Additional: AP Test Fee;

Prerequisite: Gifted Program Placement

The academic enrichment option for Advanced Placement students follows much of the same syllabus and curriculum as the Advanced Placement English 12 throughout the year. However, students will also explore various critical schools of thought. Emphasis is on challenging reading, writing and discussion. In addition, guest speakers and presentations will complement the curriculum. If the student achieves a high score on the national exam, he/she may be entitled to advanced placement in college. Students enrolled in this course are expected to follow the summer reading requirements.

COURSE #1210

Honors English 12

Level: Honors

Credits: 1.0

Grade Level: 12

NCAA Core: Yes

Honors English is designed to accommodate those students whose reading, writing, and critical thinking already function at the college level. This course will follow the curriculum guide for College Preparatory English; however, the pace of the course will be accelerated and the amount of independent reading and writing will increase. Students who register for this course should be consistent, self-motivated workers. The English Department recommends that students who enroll in this course have at least a B+ in English 11 and follow summer reading requirements.

COURSE #1215

Academic Enrichment (AE) - Honors English 12

Level: Honors

Credits: 1.0

Grade Level: 12

NCAA Core: Yes

Prerequisite: Gifted Program Placement

The academic enrichment option for Honors English 12 follows much of the same syllabus and curriculum as the Honors English 12 throughout the year. Students will make advances in critical reading, writing, speaking, and listening skills. Students will also create and participate in an informed argument and presentation. In addition, guest speakers and presentations will complement the curriculum. Summer reading is also a requirement.

COURSE #1220

English 12

Level: Non-weighted

COURSE #S1220 with modifications

Credits: 1.0

Grade Level: 12

NCAA Core: Yes

English 12 is designed to challenge and to meet the needs of students who plan college-level study after graduation. The curriculum includes world literature focusing especially on British writers. Outside readings will be assigned. Throughout the year, students will write expository, creative, and documented papers, which must be typed or computer-generated. Speaking skills focusing on oral presentation are a requisite of this course. The English Department strongly recommends that students who enroll in this course have at least a "B" average in English 11 and follow the summer reading requirements.

COURSE #1250

Foundations English 12

Level: Non-weighted

Credits: 1.0

Grade Level: 12

NCAA Core: No

Prerequisite: Department Placement

English 12 Foundations is a curriculum designed with an emphasis on skills and strategies that promote literacy. Students will read high interest World Literature. The writing process will be taught and reinforced. Foundations offers more individualized instruction.

Full Credit Language Arts Elective Courses

Courses can be taken in addition to the four English credits required for Graduation

COURSE #1060

Journalism/Creative Writing

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

This writing-intensive course explores both the journalistic style of writing and creative writing. By enrolling in the course, students become staff writers for the award-winning **Playwickian** newspaper and **Howler** literary magazine with the goal of publishing work in both media. Some journalism topics to be covered are news writing, feature writing, sports writing, editorial writing, entertainment reviews, copy editing, media law, photojournalism, and page design (PageMaker & Photoshop). The creative writing aspect of the course will survey poetry, short fiction, essays & journal writing.

COURSE #1055

Drama

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

In this course taught on stage, students work on the staging and performance aspects of plays. Pantomime, voice, and acting techniques will be developed. Creative improvisational exercises, monologues, script work and scene work are regular parts of the course. Students will have opportunities to perform for an audience.

COURSE # 5560

Newspaper

Level: Non-weighted

Grade Level: 10,11,12

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: Journalism/Instructor Recommendation

Publication editors have time in the regularly scheduled school day to organize and to produce the **Playwickian**, the student newspaper, and **Howler**, the literary magazine. Students will also evaluate issues of the school newspaper and literary magazine as well as publications from other schools. Grade 10 students who cannot fit the Journalism English elective into their schedules may take this full-year elective with the approval of the course advisor.

COURSE # 5710

Yearbook

Level: Non-weighted

Grade Level: 10,11,12

Credits: 1.0

Resolvable around Lab: Yes

Approval of Course Advisor Required

This course is an elective open to all high school students upon approval of the course adviser. By enrolling in the course, students become staff writers and editors for the Neshaminy High School Redskin Yearbook club. All aspects of the photo-journalism field will be explored, exposing students to the skills necessary to produce a high quality publication, such as interviewing, design concepts, and article writing. From the blank page to the finished products, the students will be involved with the journalistic researching, photography, layout/design, and writing of the Neshaminy Yearbook.

Students should apply who have the following interests: journalistic researching, photography, layout/design, and writing the complete stories pertaining to all aspects of the school year. Staff members of the Yearbook club are expected to attend regular after school meetings. Those students who wish to be an editor have additional expectations: organizing and delegating assignments to the staff, keeping on top of deadlines, regular school meetings, and participation in the summer yearbook camp.

Half Credit Language Arts Elective Courses

COURSE #1090

Public Speaking

Level: Non-weighted

Grade Level: 9-12

Credits: 0.5 Even/Odd

Resolvable around Lab: No

This public speaking course is designed to help students overcome the fear of making speeches to audiences. Students find this course fun and beneficial, while building poise & confidence in a non-threatening environment. Speech is usually a requirement for most majors in colleges & universities.

Language Arts Department

COURSE #1085

Grade Level: 9-12

Resolvable around Lab: No

Shakespeare

Level: Non-weighted

Credits: 0.5 Even/Odd

Students will explore marvelous dramas of love, war, and adventure in several fine Shakespearean comedies, tragedies, and histories not usually addressed in regular English classes. Our methods will include a great deal of in-class reading, role-playing, listening to professionally prepared tapes, and watching new, exciting Hollywood productions that appeal to the modern audience.

The main goal is to know and love the exciting dramas of William Shakespeare. We promise that the language will not be a barrier! The selection of plays will be different each school year.

COURSE #1050

Grade Level: 9-12

Resolvable around Lab: No

Drama – Half Credit

Level: Non-weighted

Credits: 0.5 Even/Odd

In this half-credit course taught on stage, students work on the staging and performance aspects of plays. Pantomime, voice and acting techniques will be developed. Creative improvisational exercises, monologues, script work and scene work are regular parts of the course. Students will have opportunities to perform for an audience.

COURSE #1070

Grade Level: 9-12

Resolvable around Lab: No

Mythology & Folklore

Level: Non-weighted

Credits: 0.5 Even/Odd

One of the most popular units of any English curriculum is the study of mythology – those incomparable tales of Zeus and the bad-acting gods and goddesses of Mt. Olympus who so influenced the lives of us mortals.

Students have an opportunity to relive the exciting adventures of the Greek gods and heroes and learn of their Roman, Egyptian, Norse, and Native American counterparts. The Mythology course promises a series of daily adventures through reading, role-playing, co-operative learning, and game activities which are enjoyable and educational. Furthermore, individuals who choose to study Mythology will be able to recognize the boundless mythological allusions that appear so frequently in conversation, literature, movies, and commercials



Social Studies Department

The high school social studies program is constituted as an interdisciplinary curriculum, drawing on all of the social sciences. It seeks to establish understandings of U.S. institutions and world cultures that will enhance personal citizenship and widen the student's appreciation of common problems facing mankind.

In addition to promoting the mastery of content, the social studies program stresses skills, attitudes and effective oral and written communication. Students will also be encouraged to fulfill some of their course requirements using a cross discipline approach.

Social Studies Course Sequence

Grade 9	Grade 10	Grade 11	Grade 12
Honors United States History 2	AP European History	AP United States History AE AP United States History	Full Credit Courses AP American Govt. & Politics AP European History AP Human Geography AP Psychology AP United States History
Honors United States History 2	Honors Modern World History	AE Honors Contemporary United States & World History Honors Contemporary United States & World History	
United States History 2	Modern World History	Contemporary United States & World History	Semester Courses Civics & Economics Honors Civics & Economics Honors Psychology Honors Sociology Psychology Sociology Government & Current Issues Women Studies
Foundations of United States History 2	Foundations of Modern World History	Foundations of Contemporary United States and World History	

Grade 9 Social Studies Courses

COURSE #2910

Grade Level: 9
NCAA Core: Yes

Honors United States History 2

Level: Honors

Credits: 1.0

Civil War through World War II: This course continues the content from the eighth grade social studies course. Students focus on the ideals of equality, liberty, rights, opportunity, and democracy as they evolved throughout this time period. Students analyze the expanded role of the American government to meet domestic and global challenges. Students analyze historical sources and interpretations of events.

Honors courses are for students with special interest, high motivation, and aptitude in social studies. The content of the courses parallels the regular course content, but students will be required to submit a research paper, and complete homework assignments, tests, and examinations containing essay questions that focus on critical thinking.

COURSE #2920

COURSE # S2920 with modifications

Grade Level: 9
NCAA Core: Yes

United States History 2

Level: Non-weighted

Credits: 1.0

Students focus on the ideals of equality, liberty, rights, opportunity and democracy as they evolved throughout this time period. Students analyze the expanded role of the American government to meet domestic and global challenges. Students analyze historical sources and interpretations of events. Units include: the Civil War, Progressive Period, World War I, the Great Depression, and World War II.

This course is designed to meet the needs of students preparing for college, entering the working world or anticipating a non-academic post-secondary education. Teachers may select from a variety of academic challenges to assess the students.

Social Studies Department

COURSE #2940

Grade Level: 9
NCAA Core: No

Foundations of United States History 2

Level: non-weighted

Credits: 1.0

This course continues the content from the eighth grade social studies course. Students focus on the ideals of equality, liberty, rights, opportunity, and democracy as they evolved throughout this period. Students analyze the expanded role of the American government to meet domestic and global challenges. Students analyze historical sources and interpretations of events. Units include: the Civil War, Progressive Period, World War I, the Great Depression, and World War II. The Foundations course focuses on reading and skill development for students who give evidence of reading two or more years below grade level and need directed instruction.

Grade 10 Social Studies Courses

COURSE #2010

Grade Level: 10,12
NCAA Core: Yes
Additional: AP Test Fee

Advanced Placement (AP) European History

Level: AP

Credits: 1.0

Advanced Placement is a program of college level courses and exams for secondary school students. Over 90 percent of the colleges that most AP candidates have attended give credits and/or advanced placement to students whose AP Examination grades are considered acceptable. Students should have a teacher recommendation to take this course. Students who elect Advanced Placement European History are exempted from Modern World History.

The time reference for the course stretches from approximately 1400 A.D. to the present day and covers all fields of human endeavor in various degrees of depth. Reading is divided between the text, copies of primary sources from the period, and secondary sources mainly written by internationally recognized historians and experts in the field being studied. In addition to extensive and intensive reading and writing, the AP examination is required.

COURSE #2310

Grade Level: 10
NCAA Core: Yes

Honors Modern World History

Level: Honors

Credits: 1.0

In this course students study the major turning points that shaped the modern world from the Renaissance through World War II. Students will develop an understanding of current world issues and relate them to their historical, geographical, political, economic, and cultural contexts. In addition, students will consider multiple accounts of events in order to understand international relations from a variety of perspectives.

The course is for students with special interest, high motivation and aptitude in social studies. The content of these courses will parallel the regular course content, but students will be required to submit a research paper, and submit a minimum of one written book report, and to complete homework assignments, tests, and examinations containing essay questions that focus on critical thinking.

COURSE #2320

COURSE #S2320 with modifications

Grade Level: 10
NCAA Core: Yes

Modern World History

Level: Non-weighted

Credits: 1.0

In this course students study the major turning points that shaped the modern world from the Renaissance through World War II. Students will develop an understanding of current world issues and relate them to their historical, geographical, political, economic, and cultural contexts. In addition, students will consider multiple accounts of events in order to understand international relations from a variety of perspectives.

Although the teacher of this course may select some of the Honors requirements for students to fulfill, the requirements are fewer in number and modified to meet the educational needs of the students who are college bound, entering the working world or anticipating a non-academic post-secondary education.

COURSE #2340

Grade Level: 10
NCAA Core: No

Foundations of Modern World History

Level: Non-weighted

Credits: 1.0

In this course, students study the major turning points that shaped the modern world from the Renaissance through World War II. Students will develop an understanding of current world issues and relate them to their historical, geographical, political, economic, and cultural contexts. In addition, students will consider multiple accounts of events in

Social Studies Department

order to understand international relations from a variety of perspectives. The Foundations course focuses on reading and skill development for students who give evidence of reading two or more years below grade level and need directed instruction.

Grade 11 Social Studies Courses

COURSE #2000**Advanced Placement (AP) United States History****Level: AP***Grade Level: 11,12**Credits: 1.0**NCAA Core: Yes**Additional: AP Test Fee*

Advanced Placement is a program of college level courses and exams for secondary school students. Over 90 percent of the colleges that most AP candidates have attended give credits and/or advanced placement to students whose AP Examination grades are considered acceptable. Students should have a teacher recommendation to take this course.

The time reference for this challenging course stretches from the colonial period until the present day. The political, economic, social, and cultural history of the U.S. is pursued as thoroughly as time permits. The reading is extensive, involving primary and secondary sources. In addition to extensive and intensive reading and writing, the AP examination is required.

COURSE #2001**Academic Enrichment (AE) Advanced Placement (AP)
United States History****Level: AP***Grade Level: 11**Credits: 1.0**NCAA Core: Yes**Prerequisite: Gifted Program Placement**Additional: AP Test Fee*

The Academic Enrichment option for Advanced Placement students follows the same syllabus, assignments and curriculum as AP United States History through the date of the national exam in early May. After the national exam, Academic Enrichment students will pursue a different track to enhance critical thinking, reading and analytical skills and, to develop interpretive skills in the creative arts. Academic Enrichment students will also be invited to participate on a field trip and other special offerings.

COURSE #2210**Honors Contemporary United States and World History****Level: Honors***Grade Level: 11**Credits: 1.0**NCAA Core: Yes*

Students study the major events and trends that shaped the modern world from the end of World War II through the modern day. Students will develop an understanding of current world issues, focusing on the role played by the United States, and relate them to their historical, geographical, political, economic and cultural contexts. In addition, students will consider multiple perspectives in order to understand international relations.

This course is for student with special interest, high motivation and aptitude in social studies. The content of these courses will parallel the regular course content, but students will be required to submit a research paper, and submit a minimum of one written book report and to complete homework assignments, test and examinations containing essay question that focus on critical thinking.

COURSE #2211**Academic Enrichment (AE) Honors Contemporary
United States & World History****Level: Honors***Grade Level: 11**Credits: 1.0**NCAA Core: Yes**Prerequisite: Gift Program Placement*

The Academic Enrichment option for Honors students covers the same general content and expectations as a standard Honors Contemporary United States and World History Course. Assignments and class activities, however, are structured to promote more open-ended responses, to allow for more critical analysis and to develop analytical discussion questions. Academic Enrichment students will also be invited to participate on a field trip and other special offerings.

Social Studies Department

COURSE #2220**Contemporary United States and World History****Level: Non-weighted****COURSE #S2220** with modifications**Credits: 1.0***Grade Level: 11**NCAA Core: Yes*

Students study the major events and trends that shaped the modern world from the end of World War II through the modern day. Students will develop an understanding of current world issues, focusing on the role played by the United States, and relate them to their historical, geographical, political, economic and cultural contexts. In addition, students will consider multiple perspectives in order to understand international relations.

Although the teacher of this course may select some of the Honors requirements for students to fulfill, the requirements are fewer in number and modified to meet the educational needs of the students who are college bound, entering the working world, or anticipating a non-academic post-secondary education

COURSE #2240**Foundations of Contemporary United States
and World History****Level: Non-weighted****Credits: 1.0***Grade Level: 11**NCAA Core: No*

Students study the major events and trends that shaped the modern world from the end of World War II through the modern day. Students will develop an understanding of current world issues, focusing on the role played by the United States, and relate them to their historical, geographical, political, economic and cultural contexts. In addition, students will consider multiple perspectives in order to understand international relations. The Foundations course focuses on reading and skill development for students who give evidence of reading two or more years below grade level and need directed instruction.

Grade 12 Social Studies Courses

COURSE #2010**Advanced Placement (AP) European History****Level: AP***Grade Level: 10,12***Credits: 1.0***NCAA Core: Yes**Additional: AP Test Fee*

The time reference for the course stretches from approximately 1400 A.D. to the present day and covers all fields of human endeavor in various degrees of depth. Reading is divided between the text, copies of primary sources from the period, and secondary sources mainly written by internationally recognized historians and experts in the field being studied. In addition to extensive and intensive reading and writing, the AP examination is required.

COURSE #2000**Advanced Placement (AP) United States History****Level: AP***Grade Level: 11,12***Credits: 1.0***NCAA Core: Yes**Additional: AP Test Fee*

The time reference for this challenging course stretches from the colonial period until the present day. The political, economic, social, and cultural history of the U.S. is pursued as thoroughly as time permits. The reading is extensive, involving primary and secondary sources. In addition to extensive and intensive reading and writing, the AP examination is required.

COURSE #2005**Advanced Placement (AP) American
Government & Politics****Level: AP***Grade Level: 12***Credits: 1.0***NCAA Core: Yes**Additional: AP Test Fee*

The Advanced Placement course in Government is an intensive study of American Government and Politics. The course is designed to give students a critical perspective and analysis of American governmental and political institutions, groups and beliefs. In addition to extensive and intensive reading and writing, the AP examination is required.

Social Studies Department

COURSE #2015

Grade Level: 12

NCAA Core: Yes

Additional: AP Test Fee

Advanced Placement (AP) Psychology

Level: AP

Credits: 1.0

The Advanced Placement course in Psychology is primarily designed for Honors students who have not taken an Advanced Placement Course and who are more interested in social science than history and government. These students will explore a college level experience that traces the emergence of scientific psychology in the nineteenth century from its roots in philosophy and physiology. The various schools of psychology will be discussed and related to the principle twentieth century approaches to psychology. The scientific nature of psychology is made clear through coverage of the methods psychologists use. Emphasis is placed on the experimental method, but other methods, as well as elementary statistical analysis, are covered.

Students will learn about the many fields within psychology and the importance of ethics in both scientific research and the practice of psychology. In addition to extensive and intensive reading and writing, the AP examination is required. The Civics and Economics requirement will be incorporated in this class.

COURSE #2020

Grade Level: 12

NCAA Core: Yes

Additional: AP Test Fee

Advanced Placement (AP) Human Geography

Level: AP

Credits: 1.0

The AP Human Geography course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students will make use of spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools that geographers use in applying their science and practices.

Human Geography allows students to learn about world population issues, border disputes, and international conflicts. In addition, students are exposed to economic theories and models as well as world religions and the origins and diffusion of languages. Students will study urban development, industrialization, and city planning. Human Geography prepares students for intermediate and advanced level college courses by making demands upon them equivalent to those made by a one semester introductory level college course. Students must be able to draw upon factual knowledge in order to exercise analytic skills intelligently. Solid reading and writing skills, along with a willingness to devote time to independent reading, homework, and study are necessary to succeed.

Grade 12 Semester Social Studies Courses

Semester Social Studies Courses are scheduled in pairs. Each pairing will include Civics and Economics and another course. Please see the Overview of Grade 12 Course Offerings.

COURSE #2080

Grade Level: 12

NCAA Core: Yes

Government & Current Issues

Level: Non-weighted

Credits: 0.5 Semester

The focus of this course will be American Government and Current Events. The course is offered for the student who wants a working knowledge of the state of world affairs with an emphasis on the United States and how it deals with problems. Problems studied will range from terrorism to ongoing wars to the impact of recent U.S. Supreme Court decisions.

COURSE #2095

Grade Level: 12

NCAA Core: Yes

Honors Psychology

Level: Honors

Credits: 0.5 Semester

This course is for students with special interest, high motivation and aptitude in social studies. The content of this course will parallel the regular course content, but students will be required to submit either a research paper or one written book report. Examinations will be given greater course weight and will include essays that focus on critical thinking.

This course is a basic introduction to psychology. Emphasis is placed on interpersonal relationships, self-understanding, personality formation and child development. Some specific areas of study include perception, the scientific methods, theoretical frameworks, learning, the maturation process, and self-evaluation.

Social Studies Department

COURSE #2090

Psychology

Level: Non-weighted

COURSE #S2090 with modifications

Credits: 0.5 Semester

Grade Level: 12

NCAA Core: Yes

This course is a basic introduction to psychology. Emphasis is placed on interpersonal relationships, self-understanding, personality formation and child development. Some specific areas of study include perception, the scientific methods, theoretical frameworks, learning, the maturation process, and self-evaluation.

COURSE #2105

Honors Sociology

Level: Honors

Grade Level: 12

Credits: 0.5 Semester

NCAA Core: Yes

This course is for students with special interest, high motivation and aptitude in social studies. The content of this course will parallel the regular course content, but students will be required to submit a research paper or one written book report. Examinations will be given greater course weight and will include essays that focus on critical thinking.

Sociology is the study of groups and their influence on the individual from birth to death. Sociology attempts to show patterns of the past and trends of the present in order to help students better understand and fulfill the various roles they play as infants, adolescents, and mature persons in our society.

COURSE #2100

Sociology

Level: Non-weighted

COURSE #S2100 with modifications

Credits: 0.5 Semester

Grade Level: 12

NCAA Core: Yes

Sociology is the study of groups and their influence on the individual from birth to death. Sociology attempts to show patterns of the past and trends of the present in order to help students better understand and fulfill the various roles they play as infants, adolescents, and mature persons in our society.

COURSE #2120

Women Studies

Level: Non-weighted

Grade Level: 12

Credits: 0.5 Semester

NCAA Core: Yes

Women Studies examines the rights and roles of women as they have evolved in the West. The course examines the status of American women as compared to men of other cultures and time periods. Students discuss and evaluate current issues affecting American women.

COURSE #2065

Honors Civics and Economics

Level: Honors

Grade Level: 12

(Senior Requirement)

Credits: 0.5 Semester

NCAA Core: Yes

The course is for students with special interest, high motivation and aptitude in social studies. The content of these courses will parallel the regular course content, but students will be required to submit a series of essays based on readings of primary documents and statistical analysis of empirical data, to complete homework assignments, tests and examinations containing essay questions that focus on critical thinking.

Students will acquire the skills and knowledge necessary to become responsible and effective citizens. Students will gain a practical understanding of economics and how it affects their lives as consumers in an interdependent world. When studying the political and economic systems, students will become aware of their rights and responsibilities and put this information into practice. As informed decision-makers, students will apply acquired knowledge to real life experiences.

COURSE #2060

Civics and Economics

Level: Non-weighted

COURSE #S2060 with modifications

(Senior Requirement)

Credits: 0.5 Semester

Grade Level: 12

NCAA Core: Yes

Students will acquire the skills and knowledge necessary to become responsible and effective citizens in the United States. Students will gain a practical understanding of economics and how it affects their lives as consumers in an interdependent world. When studying the political and economic systems, students will become aware of their rights and responsibilities and put this information into practice. As informed decision-makers, students will apply acquired knowledge to real life experiences.

Mathematics Department

A minimum of three credits of mathematics is required for graduation from high school. The goals of the mathematics department are that all students will learn:

- To use logical, inductive, and deductive reasoning with creative thinking.
- To use appropriate decision-making skills in the problem solving process.
- The mathematics necessary to continue with his/her career and educational goals.

The Mathematics Department continues to integrate technology into its curriculum as a tool for exploration and learning. Many of the courses are enhanced by the proper use of calculators. A TI-83 Plus or TI-84 Plus calculator is strongly recommended as the textbooks are keyed to that technology. Speak with your mathematics teacher about selecting the correct calculator for your needs.

The following flowchart may be used to help guide the student in their course selection. Each student should speak with his/her math teacher about the appropriate course and level. Statistics and Computer Math Java may be taken at any grade level as an elective, provided the student satisfies the course prerequisites.

Mathematics Course Sequence

Grade 9	Grade 10	Grade 11	Grade 12
Honors Geometry	Honors Math 1 Honors Algebra 2	Honors Math 2 Honors Precalculus	AP Calculus AP Statistics Honors Calculus
Geometry	Algebra 2	Precalculus	Calculus
Algebra 1 Algebra 1 Part 2	Geometry	Algebra 2	Precalculus Algebra 3
Algebra 1 Part 1	Algebra 1 Part 2	Geometry	Algebra 2

Grade 9 Mathematics Courses

COURSE #3160

Grade Level: 9

NCAA Core: Yes

Prerequisite: Honors Algebra 1

Honors Geometry

Level: Honors

Credits: 1.0

The Honors Geometry course fosters an understanding of the special properties of two and three-dimensional figures and emphasizes the relationships among points, lines, angles, triangles, polygons, & circles. Emphasis will be on the deductive proof.

COURSE #3155

Grade Level: 9,10

NCAA Core: Yes

Prerequisite: Algebra 1 Part 2 or Algebra 1

Geometry

Level: Non-weighted

Credits: 1.0

The accelerated geometry course fosters an understanding of the special properties of two- and three-dimensional figures and emphasizes the relationships among angles, points, lines, triangles, polygons, and circles. Organization of information to draw logical conclusions and algebraic problem-solving skills will be stressed

COURSE #3002

COURSE #S3002 with modifications

Grade Level: 9

NCAA Core: Yes (.5 credit)

Algebra 1 Part 1

Level: Non-weighted

Credits: 1.0

In this course students will begin an in-depth study of algebraic operations. It introduces students to all the dimensions of the understanding of Algebra: its skills, its properties, its applications and its representations. The concepts covered include: addition, subtraction, multiplication, and division in Algebra; uses of variables and linear sentences. This course is typically taken in the 8th grade, it is offered in 9th grade as a repeat course.

Mathematics Department

COURSE #3005

Algebra 1 Part 2

Level: Non-weighted

COURSE #S3005 with modifications

Credits: 1.0

Grade Level: 9,10

NCAA Core: Yes (.5 credit)

Graphing Calculator Recommended

The course continues from Algebra 1, Part 1 in the study of the real number system. Utilizing algebraic operations, solving linear equations and inequalities, graphing equations, and solving quadratic equations are developed to increase problem-solving skills.

COURSE #3000

Algebra 1

Level: Non-weighted

Grade Level: 9,10

Credits: 1.0

NCAA Core: Yes

Graphing Calculator Recommended

Algebra 1 is a course in the study of the real number system. Utilizing algebraic operations, solving linear equations and inequalities, graphing equations, and solving quadratic equations are developed to increase problem-solving skills. This course is not for students who have passed Algebra 1, Algebra1 Part 1 and Algebra 1Part 2.

Grade 10 Mathematics Courses

COURSE #3170

Honors Math 1

Level: Honors

Grade Level: 10

Credits: 1.0

NCAA Core: Yes

Prerequisite: Honors Geometry; Graphing Calculator Recommended

This course is available for students who have demonstrated an outstanding ability and a genuine interest in the field of mathematics. Students will be invited to participate in the Honors sequence. After briefly reviewing Algebra 1 concepts, the course continues with polynomial equations and inequalities, functions (polynomial, absolute value, exponential, and logarithmic), sequences, series, statistics, and probability.

COURSE #3010

Honors Algebra 2

Level: Honors

Grade Level: 10

Credits: 1.0

NCAA Core: Yes

Prerequisite: Placement Testing, Honors Geometry; Graphing Calculator Recommended

Honors Algebra 2 is a course designed to challenge mathematically talented students through the use of problems involving higher level thinking skills. The course will briefly review Algebra 1 then move through a sequential study of inequalities, linear and quadratic functions, polynomials, higher degree equations, exponents, complex numbers, conic sections, and coordinate geometry.

COURSE #3020

Algebra 2

Level: Non-weighted

Grade Level: 10, 11, 12

Credits: 1.0

NCAA Core: Yes

Graphing Calculator Recommended

After a short review of introductory algebra, this course will examine quadratic functions, variations, irrational expressions, systems of equations, complex number, functions, coordinate geometry, conic sections, and logarithms.

Grade 11 Mathematics Courses

COURSE #3190

Honors Math 2

Level: Honors

Grade Level: 11

Credits: 1.0

NCAA Core: Yes

Prerequisite: Honors Math 1; Graphing Calculator Recommended

Honors Math 2 is an honors course for which students with outstanding mathematical talent are selected. The content includes a full course in trigonometry followed by an introduction to calculus. Topics are covered faster and in more depth and the level of difficulty is greater than that in non-honor classes. Graphing calculators are used extensively.

Mathematics Department

COURSE #3260

Honors Precalculus

Level: Honors

Grade Level: 11

Credits: 1.0

NCAA Core: Yes

Prerequisite: Honors Algebra 2; Graphing Calculator Recommended

Honors Precalculus is designed to challenge mathematically talented students through the study of complex numbers, polar coordinates, conic sections, and limits, and polynomial, trigonometric, linear, quadratic, rational, exponential and logarithmic functions.

COURSE #3250

Precalculus

Level: Non-weighted

Grade Level: 11, 12

Credits: 1.0

NCAA Core: Yes

Prerequisite: Algebra 2; Graphing Calculator Recommended

The Precalculus course will consist of the study of triangles, trigonometric functions, and functions in general. Complex numbers, polar coordinates, and DeMoivre's Theorem are introduced. The circle, parabola, ellipse, and hyperbola are studied in detail.

COURSE #3025

Algebra 3

Level: Non-weighted

Grade Level: 11, 12

Credits: 1.0

NCAA Core: Yes

Prerequisite: Algebra 2; Graphing Calculator Recommended

Algebra 3 is a study of concepts including probability, statistics, matrices, logarithms, conic sections, relations, functions, and trigonometry. This course is not for students who have passed Precalculus.

COURSE #3180

Advanced Placement (AP) Statistics

Level: AP

Grade Level: 11, 12

Credits: 1.0

NCAA Core: Yes

Prerequisite: Precalculus; Graphing Calculator Required, AP Test Fee;

The AP Statistics course exposes students to four major statistical themes: Exploring Data, Sampling and Experimentation, Anticipating Patterns, and Statistical Inferencing. This accelerated statistics class prepares students for taking the recommended Advanced Placement Statistics Examination.

Grade 12 Mathematics Courses

COURSE #3200

Advanced Placement (AP) Calculus

Level: AP

Grade Level: 12

Credits: 1.0

NCAA Core: Yes

Prerequisite: Honors Math 2; Graphing Calculator Required

Additional: AP Test Fee

This is an accelerated Calculus course and will cover all the topics included in an Advanced Placement program. It is recommended that students taking this course take the Advanced Placement Calculus AB Examination.

COURSE #3210

Honors Calculus

Level: Honors

Grade Level: 12

Credits: 1.0

NCAA Core: Yes

Prerequisite: Honors Precalculus; Graphing Calculator Recommended

In this course, mathematically talented students will review functions, and study the topics of limits, continuity, derivatives, extremes, the integral, and applications.

COURSE #3215

Calculus

Level: Non-weighted

Grade Level: 12

Credits: 1.0

NCAA Core: Yes

Prerequisite: Precalculus; Graphing Calculator Recommended

Calculus includes the continued study of elementary functions, analytic geometry, limits, and continuity. The derivative and the integral and their applications are also studied.

Full Credit Mathematics Elective Courses

COURSE #3090

Advanced Placement (AP) Computer Math Java

Level: AP

Grade Level: 10, 11, 12

NCAA Core: Yes

Prerequisite: Computer Math Java;

Additional: AP Test Fee

Credits: 1.0

This is an advanced course in Java emphasizing programming methodology and functional abstraction, including the study of algorithms, data structures, and data manipulation with respect to the APCS Java subset. Topics of the AP Computer Science curriculum, Level A and AB will be examined. It is recommended that students taking this course take the Advanced Placement examination in computer science at the end of this course.

COURSE #3070

Computer Math Java

Level: Non-weighted

Grade Level: 9,10, 11, 12

NCAA Core: Yes

NOTE: Must be taken concurrent with an appropriate grade level math course

Prerequisite: Algebra I

Credits: 1.0

Computer Math Java is a full-year computer programming course using Java language to solve problems by incorporating data and control structures, methods, and algorithm analysis. The essentials of object-oriented programming and simple graphics are also explored.

COURSE #3270

Statistics

Level: Non-weighted

Grade Level: 11, 12

NCAA Core: Yes

Prerequisite: Algebra 2; Graphing Calculator Recommended

Credits: 1.0

The purpose of this course is to provide students with an elementary understanding of statistics through a deeper investigation into the role statistics plays in understanding real-world problems. Students will learn about Descriptive and Inferential statistics and will use graphical and quantitative descriptors. They will study correlation, regressions, sampling, simulations, and test for variance including standard deviation. The TI-84 Plus graphing calculator will be used extensively in this class.

Neshaminy High School
We Build Futures!

Science Department

A minimum of three science credits is required in grades 9-12 for graduation from Neshaminy High School. All ninth and tenth grade students are required to schedule a science course. Biology 1 is required of all students. Neshaminy School District complies with the requirements of Section 1522 of the School code regarding notification of parents and students in matters pertaining to projects involving animals or animal parts. Ample notification will be given and an alternative activity provided to fulfill the requirements of this law. The goals of the Science Department are that students shall become proficient in the following:

- Applying the processes of analysis, synthesis, & evaluation to the solution of scientific problems.
- Thinking logically and creatively, using inductive and deductive reasoning.
- Assessing risks, limitations, impacts, and benefits of scientific and technological activity in providing solutions to the problems of society.

Prerequisites are established to ensure that students have the required background to be successful in a selected course. Where a prerequisite is taken concurrently with a course, it is understood that continued matriculation in the advanced course requires continued participation in the prerequisite.

Biology Overview

Biology investigates the nature of life, its unity and diversity. The concept of the organism and its place in the biosphere is developed from an understanding of organic matter and the cell as the basic unit of structure and function of all living things. This course emphasizes the key concepts of metabolism, physiology, photosynthesis, heredity, biological change, & the interrelationships of organisms with the natural environment.

Chemistry Overview

Chemistry is the study of matter, its composition, structure, and behavior. Basic content includes gaseous behavior, mole concept, formula writing, equation writing, nature of solutions, modern structure of the atom, and chemical bonding. The principles of energy, rate of reactions, and equilibrium are also studied. Laboratory investigations are an integral part of these courses and serve to clarify concepts.

Physics Overview

Physics is the study of the relationships between Forces, Matter, & Energy. This study includes the laws of mechanics, sound, light, magnetism, & electricity. Laboratory activity is a fundamental part of these courses.

Science Course Sequence

Grade 9	Grade 10	Grade 11	Grade 12
Honors Biology 1	Honors Chemistry 1 AE Honors Chemistry 1	Honors Physics 1	Honors Physics 2 AP Physics
	AP Environmental Studies Honors Human Anatomy and Physiology		Honors Human Anatomy & Physiology Honors Biology 2 AP Biology AP Chemistry Honors Chemistry 2 AP Environmental Studies Earth and Space Environmental Studies
Biology 1	Chemistry 1	Physics 1	
Integrated Science	Biology 1	Chemistry 1	Physics 1
		Earth and Space Environmental Studies	
	Foundations of Biology	Foundations of Chemistry	Foundations of Physics
		Earth and Space Environmental Studies	

Science Department

Grade 9 Science Courses

COURSE #4910

Grade Level: 9, 10

NCAA Core: Yes

Prerequisite: Concurrent Honors Geometry

Honors Biology 1**Level: Honors**

Credits: 1.0

Lab: 1 Day

Honors Biology I, uses a molecular focus to explore how living organisms obtain, utilize, and transfer energy. Topics include: Chemistry, Biochemistry, Cell Structure and Function, Cellular Movement, Photosynthesis, Cellular Respiration, Cell Division, Genetics, Evolution, Classification, and Ecology. Students are those who have demonstrated above average mathematics, reading, and writing skills. This lab science meeting 7 periods in a 6-day cycle.

COURSE #4000

COURSE #S4000 with modifications

Grade Level: 9,10

NCAA Core: Yes

Prerequisite: Algebra I(A/ B) and current Science Teacher Recommendation

Biology 1**Level: Non-weighted**

Credits: 1.0

Lab: 1 Day

This course is designed for those students in Grade 9/10 who have at least average skills in mathematics, reading, and writing. The course includes many abstract biological concepts that require some advanced mathematical skills. This is a lab science course that meets 7 periods in a 6-day rotation.

COURSE #4900

COURSE #S4900 with modifications

Grade Level: 9

NCAA Core: Yes

Integrated Science**Level: Non-weighted**

Credits: 1.0

Lab: None

Integrated Science is an innovative science program that immerses students into science, technology, engineering, and math (STEM). By breaking down the traditional disciplinary boundaries into a series of thematic project-based "missions", 9th grade students will receive a strong foundation needed for success in future core science disciplines (biological, physical, and earth sciences.)

The curriculum is founded on the principle that students learn best when manipulatives and inquiry based projects are at the heart of the course. Integrated Science is designed to increase each student's science literacy in content and process skills to improve their opportunity for success in our biology course and State required Keystone Exam.

Grade 10 Science Courses

COURSE #4075

Grade Level: 10, 11, 12

NCAA Core: Yes

Advanced Placement (AP) Environmental Studies**Level: AP**

Credits: 1.0

Lab: 3 Days

Prerequisite for 10th grade students- earned an overall A average in both Honors Biology and Ninth Grade Honors English and be concurrently enrolled in Honors Chemistry I

Prerequisite for 11th and 12th grade students- earned a B or better in both Chemistry I/Honors Chemistry I and Honors 10th/11th English or concurrently be enrolled in Physics. Exceptions will be made for those students who score **Advanced** on the Keystone Biology Exam.

During this STEM driven, AP College Board approved course, you will study the physical, ecological, social, and political principles of environmental science to identify and analyze environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions. A strong laboratory and outdoor field investigation component utilizes the 125-acre Idlewood Environmental Station is required.

Upon completion of this course you will (1) know and understand the levels of the ecological hierarchy, (2) be able to describe the integration of natural processes that govern the natural world, (3) understand the importance of maintaining a sustaining biosphere for the continued presence of a human population on the earth (4) understand the pragmatic and realistic difficulties of integrating human societal needs without further compromising ecological processes (5) become familiar with the ecological background to global environmental problems (6) realize the consequences of our individual and joint actions upon the biosphere. This course will meet 9 periods in a 6-day rotation.

Science Department

COURSE #4080

Honors Human Anatomy & Physiology

Level: Honors

Grade Level: 10, 11, 12

NCAA Core: Yes

Prerequisite: Biology 1 or Honors Biology 1

Concurrent: Chemistry 1

10th Grade – Current Science Teacher Recommendation Required

Credits: 1.0

Lab: 1 Day

This elective course is designed to provide students with an in-depth background in human anatomy (structure) and physiology (function). It is strongly recommended for students who are interested in medicine, nursing, or other allied health careers. A demonstrated ability to work with a heavier than average academic workload is essential as this class is taught on par with a collegiate course.

Emphasis is placed on histology, skeletal, muscular, nervous, endocrine, digestive, respiratory, cardiovascular, urinary and immune systems.

Laboratory investigations include microscopy, case studies and medical simulations. Dissections, which are a critical aspect of the course, include sheep organ (brain, eye and heart) and may include mink dissection for comparative anatomy studies. Students must be able to work well in a supervised lab.

COURSE #4030

Honors Chemistry 1

Level: Honors

Grade Level: 10

NCAA Core: Yes

Prerequisite: Algebra 1

Credits: 1.0

Lab: 1 Day

This course is designed for those Grade 10 students who have successfully completed Honors Biology I. This course will deal with abstract chemistry concepts in a rigorous mathematical fashion. Topics include atomic theories, the periodic table, chemical bonding, stoichiometry, chemical kinetics, equilibrium, solutions, and acid base chemistry. This lab course meets 7 periods in a 6-day rotation and requires the completion of lab reports.

COURSE #4035

Academic Enrichment (AE) Honors Chemistry 1

Level: Honors

Grade Level: 10

NCAA Core: Yes

Prerequisite: Algebra 1 and; Gifted Program Placement

Credits: 1.0

Lab: 1 Day

The Academic Enrichment option for Honors students covers the same general content and expectations as the standard Honors Chemistry I curriculum. Assignments and class activities, however, are structured to promote more open-ended responses and investigations and to allow for more critical analysis of laboratory exercises. Topics include atomic theories, the periodic table, chemical bonding, stoichiometry, chemical kinetics, equilibrium, solutions, and acid base chemistry. Academic Enrichment students will be invited to participate in a field trip and other special offerings.

COURSE #4040

Chemistry 1

Level: Non-weighted

Grade Level: 10, 11

NCAA Core: Yes

Prerequisite: Biology; Algebra 1

Credits: 1.0

Lab: 1 Day

Many abstract concepts will be investigated mathematically. Because of the quantitative approach, it is assumed that students who elect this course have solid skills in the areas of fundamental arithmetic operations, ratio and proportion, and solving linear equations. Topics include atomic theories, the periodic table, chemical formulas and equations, chemical bonding, stoichiometry, solutions and acid base chemistry. This lab course meets 7 periods in a 6-day rotation and requires the completion of lab reports.

COURSE #4010

Foundations of Biology

Level: Non-weighted

Grade Level: 10

NCAA Core: No

Prerequisite: Integrated Science

Credits: 1.0

Lab: 1 Day

The course is designed for those students in Grade 10 who have basic skills in mathematics, reading and writing. The course meets the expectations of the basic biological concepts as defined by the PA state standards. This is a lab science course that meets 7 periods in a 6-day rotation, and the lab activities are designed to reinforce the various biological concepts.

Science Department

Grade 11 Science Courses

COURSE #4025**Advanced Placement (AP) Biology****Level: AP***Grade Level: 11, 12**Credits: 1.0**NCAA Core: Yes**Lab: 3 Days**Prerequisite: Concurrent Physics;**Additional: AP Exam Fee*

Students will engage in an intense and in-depth study of three major areas of biology: (1) The Molecular Basis of Life and Cells, including Biochemistry, Cells and Transformation of Energy; (2) The Principles and Theories of Genetics, including Molecular Genetics, Heredity and Evolution; and (3) Organismal and Population Biology, including the Diversity and Characteristics of the Kingdoms, Principles of Ecology, and the Interrelationships of Living Things. Class work will include appropriate and related laboratory experiences. This course will meet 9 periods in a 6-day rotation. The AP exam is required.

COURSE #4140**Advanced Placement (AP) Chemistry****Level: AP***Grade Level: 11, 12**Credits: 1.0**NCAA Core: Yes**Lab: 3 Days**Prerequisite: Concurrent Physics I, Exam Fee, AP Exam Required*

This course is designed to foster a deeper level of learning of essential chemical concepts and enduring understandings as developed by the AP College Board. AP Chemistry is the equivalent of a first year college Chemistry course. There are six main ideas: Structure of Matter, Bonding & Intermolecular Forces, Reactions, Kinetics, Thermochemistry, & Equilibrium. Students will be able to coordinate knowledge, reasoning skills, and evidence to explain and predict natural phenomena. It is strongly suggested that students have earned a B or better in both Honors Chemistry I and Algebra 2 and have exceptional analytical and mathematical thinking skills to be successful in this class. The class will meet 9 periods in a six-day rotation.

COURSE #4020**Honors Biology 2****Level: Honors***Grade Level: 11,12**Credits: 1.0**NCAA Core: Yes**Lab: 1 Day**Prerequisite: Concurrent: Physics*

Students will investigate topics in modern life science. Major areas of class and laboratory study include biological chemistry, cytology (cell study), microbiology, genetics, and physiology of plants and animals. This course will meet 7 periods in a 6-day rotation.

COURSE #4120**Honors Physics 1****Level: Honors***Grade Level: 11**Credits: 1.0**NCAA Core: Yes**Lab: 1 Day**Prerequisite: Honors Chemistry**Concurrent: Honors Precalculus or Honors Math 2*

This course is taught to those eleventh grade students who have successfully completed Chemistry I Honors. This course emphasizes the mathematical relationship between forces, matter and energy. Topics include mechanics, optics, wave motion, electricity and magnetism. There is significant emphasis on the quantitative analysis of physical phenomena. This course meets 7 periods in a 6-day rotation.

COURSE #4130**Physics 1****Level: Non-weighted***Grade Level: 11,12**Credits: 1.0**NCAA Core: Yes**Lab: 1 Day**Prerequisite :Chemistry 1; Concurrent Precalculus*

This course is designed for those students who have successfully completed Chemistry I and are interested in furthering their understanding of the physical sciences. This course stresses problem solving and the application of mathematics to the relationship between forces, matter and energy. Topics include mechanics, optics, wave motion, electricity and magnetism. This course meets 7 periods in a six day rotation.

Science Department

COURSE #4090

Grade Level: 11

NCAA Core: No

Prerequisite :Biology 1

Foundations of Chemistry

Level: Non-weighted

Credits: 1.0

Lab: None

This course is designed to satisfy the Chemistry requirement for the student who is interested in Science but does not have a strong Math-Science correlation. Students enrolled in Algebra 2 should select Chemistry I. This course will study the fundamental concepts of Chemistry that include topics such as the Structure of Matter, Atomic Theory, Periodic Table, Chemical Reactions, and Bonding. This class meets one period a day.

COURSE #4070

Grade Level: 11, 12

NCAA Core: Yes

Prerequisite: Biology 1

Environmental Studies

Level: Non-weighted

Credits: 1.0

Lab: None

Investigations utilize the forest, meadow, and stream habitats of the 125-acre Idlewood Environmental Station to develop an understanding of basic principles of ecology. Students relate the concepts of ecology to environmental problems including acid rain, toxic waste, and endangered species. Both laboratory experiments and outdoor field studies are included.

COURSE #4060

COURSE #S4060 with modifications

Grade Level: 11, 12

NCAA Core: Yes

Prerequisite: Biology 1

Earth & Space Science

Level: Non-weighted

Credits: 1.0

Lab: None

This course centers on a study of the physical characteristics of the earth. It considers the forces that continuously change the earth's physical make-up and, through astronomy, develops an understanding of the universe and where the earth fits. Topics studied include meteorology, climatology, geology, oceanography, cosmology and astronomy.

Grade 12 Science Courses

COURSE #4155

Grade Level: 12

NCAA Core: Yes

Prerequisite: Honors Physics; Exam Fee

Additional:: AP Exam Required.

Advanced Placement Physics

Level: AP

Credits: 1.0

Lab: 3 Days

Students in this class will be involved in an in-depth study of the Laws of Physics. Specifically, the topics to be studied are Newtonian Mechanics, Electricity and Magnetism. The course rigor is designed to be college level. The students in this course will meet 9 periods in a 6-day rotation.

COURSE #4150

Grade Level: 12

NCAA Core: Yes

Prerequisite: Physics I; Concurrent Calculus

Honors Physics 2

Level: Honors

Credits: 1.0

Lab: 1 Day

Honors Physics II extends the concepts and principles of Physics I and meets 7 periods in a six day rotation. The main objective of the course is to unite the elementary principles of classical physics and electromagnetism.

Science Department

COURSE #4050

Grade Level: 12

NCAA Core: Yes

Prerequisite: Physics I; Precalculus

Honors Chemistry 2

Level: Honors

Credits: 1.0

Lab: 1 Day

Chemistry II extends the concepts and principles of Chemistry I. Topics such as the Structure of Matter, Kinetics, Equilibrium, Thermochemistry, and Acid-Base Chemistry will be studied in a detailed and mathematical fashion. This course is designed for students who are interested in furthering their knowledge and understanding of Chemistry. It is suggested for students who successfully completed Chemistry I with a B or better and have a strong foundation in Math. The course rigor will be similar to that of a college level course. This lab course meets 7 periods in a 6-day rotation and requires the completion of lab reports.

COURSE #4110

Grade Level: 11, 12

NCAA Core: No

Prerequisite: Chemistry 1

Foundations of Physics

Level: Non-weighted

Credits: 1.0

Lab: 1 Day

This survey of the fundamental concepts of physics stresses real world applications through mini-laboratories. These mini-labs emphasize hands-on experiences and are incorporated within the six day rotation schedule. This course is designed for the student who is interested in Science but does not have a strong Math-Science background.

This course is designed for those students who have successfully completed Chemistry I and are interested in furthering their understanding of the physical sciences. This course stresses problem solving and the application of mathematics to the relationship between forces, matter and energy. Topics include mechanics, optics, wave motion, electricity and magnetism. This course meets 7 periods in a six day rotation.

Other Science Courses available in Grade 12

COURSE #4025	Advanced Placement Biology
COURSE #4020	Honors Biology 2
COURSE #4050	Honors Chemistry 2
COURSE #4070	Environmental Studies
COURSE #4075	Advanced Placement Environmental Studies
COURSE #4060	Earth & Space Science
COURSE #4080	Honors Human Anatomy & Physiology
COURSE #4140	Advanced Placement Chemistry

Fine Arts Department

A well-rounded high school career includes courses in the Fine Arts. The Fine Arts Department offers a variety of Art and Music courses that foster a student's problem-solving and critical-thinking skills. Basic level courses are offered for the novice as well as advanced level courses for those students who may be considering a career in the Arts. For many students, this may be their last opportunity to experience and receive formal instruction in the Fine and Performing Arts. A major goal of the Fine Arts Department is to encourage students to increase their communication skills through observation, description, analyzation, interpretation, creative expression, and performance.

Visual Arts

The Neshaminy High School Art Department offers students a variety of opportunities to explore and develop their artistic interests and abilities. High school students may take all courses except the Advanced Art Program. Enrollment into the Advanced Art Program is by portfolio review. Students who have in a previous year successfully completed an art course that does not have an advanced course offering may repeat the same course in a later year, but they will be expected to do work at a more refined and advanced level in the succeeding year(s).

The art program is designed to challenge the student's skill level and apply critical thinking. Art history and appreciation are integrated into all art courses to inspire student artists to maximize their artistic potential.

COURSE #7140

Design & Illustration

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

This course is designed for all levels of student abilities. Students will be introduced to the design principles and techniques used in the following commercial arts areas: advertising design, graphic design, fashion design, package design, interior design, and illustration. Students will use a variety of traditional media as well as computer applications to create projects in these areas of design and illustration.

COURSE #7170

Drawing & Painting

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

Supplies: Purchase Art Supplies/Special Materials

This course is designed for all levels of students who desire to learn or to enhance drawing and painting skills. In the drawing segment, students will use a variety of media to explore drawings from life. Media to be explored include pencil, charcoal, conte, pen and ink, and pastels. In the painting segment, color theory will be emphasized, leading to painting experiences in tempera, watercolor, and acrylics.

COURSE # 7250

Ceramics, Sculpture & Jewelry

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

Supplies: Purchase Art Supplies/Special Materials

This course is designed for creative individuals, beginner to advanced, who like to work with their hands creating pottery, sculpture, and jewelry. A variety of ceramic techniques will be explored, including hand-built construction, wheel throwing, glazing, and firing. Relief and three-dimensional sculpture may be designed and executed using various materials, such as plaster, paper, wood, metal, glass, and clay. Handmade wearable jewelry will be designed and constructed from assorted materials such as copper, glass, and precious metal clay.

Visual Arts

COURSE # 7260

Ceramics, Sculpture & Jewelry 2

Level: Non-weighted

Grade Level: 10,11,12

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: Ceramics, Sculpture & Jewelry

Supplies: Purchase materials

This course is designed for students who have successfully completed Ceramics, Sculpture & Jewelry. Students will explore advanced skills in a variety of media.

COURSE # 7220

Photography/Digital Art

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

Supplies: Purchase Art Supplies (Aprox. \$60.00)

Helpful if have your own 35mm SLR Camera

In Photography, students will acquire skills in camera operations and darkroom techniques. These skills and techniques include the following: (1) the operation of a 35mm SLR camera; (2) procedures used to determine and control correct exposure settings; (3) chemical development of film and photographic paper; (4) darkroom processes needed to print black and white enlargements from the student's own negatives; and (5) photographic composition and design.

In Electronic Art, students will acquire and develop skills and techniques in digital photography and digital illustration. This course will introduce students to Adobe Photoshop and other computer software.

COURSE # 7230

Animation & Filmmaking

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

This course focuses on the use of the computer as the tool of the artist, designer and programmer to create, manipulate and edit 2D and 3D animation for artistic and educational purposes. Content, of course, includes computer animation and multimedia production for distribution on television, film, the Internet and CD-ROM/DVD. The class will also include study of design, color, digital filmmaking, and website development.

Storyboarding and story development are key components of the program as students move from generating original ideas to creating 2D and 3D animation. Students will gain valuable experience in designing, modeling and rendering original characters. Students will also explore digital painting, lighting, and post-production techniques.

This course will also include a concentrated, hands-on study of programming using Flash action scripting to design and create web applications and games for use on the Internet. This class will also include a study of the history of animation and game development.

COURSE # 7210

APP and Game Design

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

This course focuses on the use of the computer as the tool of the artist, designer and programmer to create a variety of complex web-based games and applications using 2D and 3D software and programming languages from Adobe, Apple and other sources.

Students will learn game theory, design theory and digital production techniques. Students will also learn advanced Adobe Flash, Adobe Dreamweaver and Adobe Photoshop techniques in order to design original interactive applications, games and web sites. Writing as a design element will also be covered.

Half-Credit Visual Art Elective Courses

COURSE # 7100

Introduction to Art

Level: Non-weighted

Grade Level: 9-12

Credits: 0.5 Even/Odd

Resolvable around Lab: No

This course will give students an opportunity to experience working with an assortment of art materials, processes and view points of what is considered art and how it is made. Students will create a variety of two-dimensional and three-dimensional works of art in studio projects that may also explore the historical and cultural characteristics of art styles throughout the world.

Visual Arts

COURSE # 7175

Drawing & Painting

Level: Non-weighted

Grade Level: 9-12

Credits: 0.5

Even/Odd

Resolvable around Lab: No

This course is designed for all levels of students who desire to learn or to enhance drawing and painting skills. In the drawing segment, students will use a variety of media to explore drawings from life. Media to be explored include pencil, charcoal, conte, pen and ink, and pastels. In the painting segment, color theory will be emphasized leading to painting experiences in tempera, watercolor and acrylics.

Half-Credit Visual Art Elective Courses

COURSE # 7255

Ceramics, Sculpture & Jewelry

Level: Non-weighted

Grade Level: 9-12

Credits: 0.5

Even/Odd

Resolvable around Lab: No

This course is designed for creative individuals, beginner to advanced, who like to work with their hands creating pottery, sculpture, and jewelry. A variety of ceramic techniques will be explored, including hand-built construction, wheel throwing, glazing, and firing. Relief and 3-dimensional sculpture may be designed and executed using various materials, such as plaster, paper, wood, metal, glass, and clay. Handmade wearable jewelry will be designed and constructed from assorted materials such as copper, glass, and precious metal clay.

Visual Art Courses

Advanced Art Program by Portfolio Review Only

Highly motivated students with advanced artistic ability and skills will be considered as applicants for the Advanced Art Program. All advanced art course work will require students to maintain a sketchbook and portfolio of their work. The course structure for this four-year program consists of the following sequences: Advanced Art Prep, Advanced Art 1, Advanced Art 2, and Advanced Art 3

COURSE # 7000

Art Major

Level: Non-weighted

Grade Level: 9,10

Credits: 1.0

Resolvable around Lab: Yes

Supplies: Purchase Art Supplies/Special Material

The ninth grade elective art program offers an intensive study of fine arts every day for a full year. Course work includes an introduction to art appreciation in conjunction with experiences in the following areas: Basic Design explores the principles and elements of design; Drawing and Painting develops skills in a variety of drawing /painting media; Ceramics and Sculpture works with 3-dimensional concepts and materials. Regular sketchbook activities are assigned. This course provides students with an excellent preparation for the Advanced Art Program offered at the high school.

COURSE # 7010

Advanced Art 1

Level: Non-weighted

Grade Level: 10

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: Portfolio review

Supplies: Purchase Art Supplies/Special Material

This course focuses on units of study in drawing and painting and photography. The drawing and painting instruction will emphasize developing basic skills while creating work from observation, personal experience and historical reference. The photography instruction will emphasize developing skills and creating work in both digital and traditional black and white photography. Students who successfully complete Advanced Art 1 may enroll in Advanced Art 2 as a junior.

Visual Art Courses

COURSE # 7020

Advanced Art 2

Level: Non-weighted

Grade Level: 11

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: Portfolio Review

Supplies: Purchase Art Supplies/Special Material

Students who have successfully completed Advanced Art 1 or AP Art may enroll in Advanced Art 2. This course focuses on units of study in three-dimensional design and units of study in drawing and painting. Students will concentrate on the preparation and development of their individual art portfolios for their college and/or art school portfolio reviews. Students who successfully complete Advanced Art 2 may enroll in Advanced Art 3 as a senior.

COURSE # 7030

Advanced Art 3

Level: Non-weighted

Grade Level: 12

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: Portfolio review

Supplies: Purchase Art Supplies/Special Material

Students who have successfully completed Advanced Art 2 may enroll in the Advanced Art 3 course. This course is divided into three areas of concentration: Art portfolio completion and review, Fine Art Printmaking, and Advanced Art Senior Show preparation and presentation.

Students who are planning to proceed with their visual arts education at the college level will continue to develop their individual portfolios throughout this course work. Students will be encouraged to present their portfolios at local college and art school portfolio review days.

COURSE #7040

AP STUDIO ART

Level: AP

Grade Level: 12

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: Portfolio Review – See an art teacher for more information Additional: AP Exam Fee

Through studio practice, application of design concepts, and informed decision making students will create a comprehensive body of work that demonstrates a high level of quality and growth. Students will address the three components of the AP Studio Art Portfolio: Breadth, Concentration, and Quality. They will develop mastery in concept, composition, and execution. Students will be challenged to develop their own personal work and keep an ongoing sketchbook. Students will submit their portfolio to the College Board for grading and possible college credit.

COURSE # 7200

Advanced Photography

Level: Non-weighted

Grade Level: 10, 11, 12

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: Photography/Digital Art; Portfolio Review

Supplies: Purchase Art Supplies/Film (Approx. \$95.00) and student must have their own SLR Film Camera.

In Advanced Black and White Photography, students will continue to develop and expand skills in camera operations and darkroom techniques. Students will learn techniques in alternative photographic processes such as toning, hand-coloring prints, and manipulation of negatives and prints. Students will use advanced camera operations involving exposure metering, lighting options, and varying lens components. Students will explore advanced darkroom techniques in the use of photographic enlargers to create manipulated images, double exposures, and enhancements and distortions of the photographic print.

Music Department

The Neshaminy High School Music Department offers students a variety of opportunities to explore and develop their musical interests and abilities in both theory and performance-oriented courses. These courses are designed to challenge the students' skill level in a sequential manner, to provide the chance for students to apply critical thinking to a variety of situations, and to become aware of the creative and expressive nature of the musical language. The current integration of computer technology into the music curriculum offers students another very powerful means of exploring their musical potential.

COURSE #7370

Grade Level: 10, 11, 12
Resolvable around Lab: Yes
Additional: AP Exam Fee

AP MUSIC THEORY

Level: AP
Credits: 1.0

The AP Music Theory course is designed to develop a student's ability to aurally and visually analyze the basic concepts and processes of music. This is achieved by incorporating lessons, assignments and creative projects that cultivate aural skills, traditional harmony, composition and analytical skills.

Skills taught in this class: Music History, building simple/compound intervals in both major and minor keys, modes, chord construction (both written and aural), voice leading, writing and harmonizing melodies by selecting appropriate chords and analyzing, written dictation, sight reading and composing a musical bass line with figured-bass notation.

The student's ability to read and write musical notation is fundamental to such a course. It is also assumed that the student has acquired (or is acquiring) at least basic performance skills in voice or on an instrument.

The Course: Advanced Placement (AP) courses are overseen by College Board (www.collegeboard.org) and are designed using college-level textbooks and resources. AP Music Theory runs like the first year of a college music theory experience, developing both theoretical and aural skills (usually taught as two separate courses in college!). It is HIGHLY recommended that students who are planning to take AP Music Theory are currently enrolled in a performing arts class at Neshaminy High School. In May, AP Music Theory students take the AP Music Theory Exam; students who score well (3-5) may receive college credit for up to a year of Music Theory and/or Aural Skills. For more information, visit the AP Music Theory Course Description on the College Board Website:

<http://apcentral.collegeboard.com/apc/public/repository/ap-music-theory-course-description.pdf>

COURSE # 7390

Grade Level: 9-12
Resolvable around Lab: Yes

Music Theory & Songwriting

Level: Non-weighted
Credits: 1.0

Music Theory and Songwriting is a full year course that introduces students to the basic theory of music through study in music notation, scales, melody, harmony, and chord construction. Those basic music aspects will immediately be put to use as the students learn to write songs for a variety of purposes. The use of computers, synthesizers, and music software is an important part of the course.

COURSE # 7510

Grade Level: 9-12
Resolvable around Lab: Yes

Guitar / Piano Lab 1

Level: Non-weighted
Credits: 1.0

This course will include one semester of guitar instruction designed to meet the needs of the beginning and novice guitar student. Students will learn to read music written for guitar in conventional notation and guitar 'tab'. Students will learn proper acoustic guitar techniques while performing songs in a variety of styles. The students will also learn basic music theory as the second component of the class.

This course will also include one semester of Electric piano instruction. Students with little or no piano performance experiences will learn to read music notation and perform melodies and chords. Students with greater piano performance skills will be able to proceed at paces set by their individual abilities and achievement levels. Proper piano performance techniques and basic music technology are integral parts of the course.

Music Department

COURSE # 7515

Guitar / Piano Lab 2

Level: Non-weighted

Grade Level: 10, 11, 12

Credits: 1.0

Resolvable around Lab:

Prerequisite: Acoustic Guitar Lab 1 or Piano Lab 1

Guitar / Piano II is an elective course designed for students who have successfully mastered the guitar skills outlined in the Acoustic Guitar course of study and/or piano skills outlined in the Piano course of study and who wish to further develop their performance abilities and music reading skills. Building on those previously learned skills, the students will study and play advanced literature in a number of styles.

COURSE # 7530

Digital Recording

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

Digital Recording is an entry-level, computer-based course open to all students. Although basic music reading and piano keyboard skills are helpful, students with little or no music background will find the project-oriented class accessible. Using our cutting-edge software, students will create their own drum tracks, podcasts, film music, sound effects, songs and much more. Each student will be responsible for creating a digital portfolio of work.

Digital Recording also introduces the students to basic digital recording techniques and would appeal to the student who is interested in the world of a music producer.

Students will use computer based digital audio (GarageBand and Logic Pro) to learn the basics of propagating, recording, editing and mixing acoustic and digital sounds. A good portion of the class will be hands-on as we learn how to produce music with the talent of our own musicians in our own studio.

COURSE # 7310

Freshman Choir

Level: Non-weighted

Grade Level: 9

Credits: 1.0

Resolvable around Lab: Yes

Freshman Grade Choir is a vocal performing group that focuses on developing vocal and musical skills. Students will study choral literature while concentrating on tone, vowel and consonant production in addition to reading music notation. As part of the class requirement, each member of ninth Grade Choir will participate in all concerts and limited rehearsals outside the school day at various times during the school year. Student participation in this course will also include and opportunity to audition for Chanticleers and Women's Chamber Ensemble.

COURSE # 7320

Select Choir

Level: Non-weighted

Grade Level: 10, 11, 12

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: Audition with Vocal Director

Select Choir is the advanced vocal class and open by audition only. Students will study and perform advanced choral literature and will focus on music from the Renaissance through Modern Eras. Members of the Select Choir will participate in all concerts and scheduled rehearsals outside the school day at various times during the school year.

COURSE # 7340

Concert Choir/String Orchestra

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: Concurrent enrollment in a band course or by approval of instructors

This class allows students to combine participation in both performance ensembles during one class period for a full credit. This class is only open to those students who are unable to schedule both Concert Choir and String Orchestra separately during the school day. This course should be selected only by students that are looking to schedule band, orchestra and choir. Students with other scheduling circumstances should speak to the Instrumental and Choir instructors in advance for approval. See individual course description for each class for course details.

Music Department

COURSE # 7343

Select Choir/Symphony Strings

Level: Non-weighted

Grade Level: 9 -12

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: Concurrent enrollment in a band course or by approval of instructors

This class allows students to combine participation in both performance ensembles during one class period for a full credit. Students must be selected by audition for both the Select Choir and Symphony Strings ensembles. This class is only open to those students who are unable to schedule both

Select Choir and Symphony Strings ensembles separately during the school day and by students who are looking to schedule a band, orchestra and choir class. Students with other scheduling circumstances should speak to the Instrumental and Choir instructors in advance for approval. See individual course descriptions for each class for course details.

COURSE # 7300

Concert Choir

Level: Non-weighted

Grade Level: 10, 11, 12

Credits: 1.0

Resolvable around Lab: Yes

This choir is the major vocal performing group at the High School and is open to all students in grades 10 through 12. Vocal techniques, voice training, concert performance, music reading skills, and appreciation of literature are stressed. Each member of the Concert Choir will participate in all concerts and limited rehearsals outside the school day at various times during the school year as part of the class requirement. Student participation in this course will also include the opportunity to audition for Chanticleers and Women's Chamber Ensemble.

COURSE # 7400

String Orchestra

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

This is a performance ensemble open to all students who play a string instrument in grades 9 through 12. Students will study and perform a variety of orchestral literature. Students will be expected to attend all performances and a limited number of rehearsals outside of the school day.

Student participation in this course will also include:

- The Instrumental Music Trip (NHS orchestra has performed in, Texas, California, Toronto, St. Louis, Florida and the Bahamas.)
- Participation in all social activities and awards sponsored by the Instrumental Music Booster organization

COURSE # 7460

Symphonic Band

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

This is a concert band performance ensemble for students in Grades 9 through 12. Students will study and perform a variety of concert band literature. Students are expected to attend performances and a limited number of rehearsals outside of the school day. All students electing this course are expected to be members of the award-winning Redskin Marching Band. Marching Band begins with Band Camp in August and requires participation in two evening rehearsals each week and a weekend performance schedule through early November.

Student participation in this course will also include: (1) the Instrumental Music Trip (NHS band has performed in Hawaii, Texas, California, Toronto, St. Louis, Florida and the Bahamas); (2) Eligibility to audition for NHS Jazz Band and/or the NHS wind and percussion section of the Full Orchestra; and (3) participation in all social activities and awards sponsored by the Instrumental Music Booster organization.

COURSE # 7470

Symphonic Band 2

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

This is a concert band performance ensemble for students in Grades 9 through 12. Students electing this class are NOT required to be members of the Marching Band. This more limited band involvement might interest students who, because of fall sports or other commitments, are unable to participate in Marching Band. This ensemble will study and perform a wide variety of concert band literature and perform at the winter and spring band concerts. Students are expected to attend all performances and a limited number of rehearsals outside of the school day.

Music

COURSE # 7480

Wind Ensemble

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: Audition with Instrumental Director

This is an advanced concert band performance ensemble for students in grades 9 through 12. Students will study and perform a variety of advanced concert band literature. Students are expected to attend performances and rehearsals outside of the school day. All students electing this course are expected to be members of the award-winning Redskin Marching Band. Marching Band begins with Band Camp in August and requires participation in two evening rehearsals each week and a weekend performance schedule through early November.

Student participation in this course will also include: (1) the Instrumental Music Trip (NHS band has performed in Hawaii, Texas, California, Toronto, St. Louis, Florida and the Bahamas); (2) eligibility to audition for NHS Jazz Band and/or the NHS wind and percussion section of the Full Orchestra; and (3) participation in all social activities and awards sponsored by the Instrumental Music Booster organization.

COURSE # 7550

Symphony Strings/Symphony Orchestra

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: Audition with Instrumental Director and approval of the instructor to elect this class.

This is an advanced level string orchestra ensemble for students in grades 9 through 12. Students will study and perform a variety of advanced string orchestra and full orchestra literature. In addition to performing as a string orchestra, the Symphony Strings will be the string section for the NHS Symphony Orchestra. Students are expected to attend a limited number of rehearsals and all performances outside the school day.

Student participation in this course will also include:

- The Instrumental Music Trip (NHS orchestra has performed in Texas, California, Toronto, St. Louis, Florida and the Bahamas.)
- Participation in all social activities and awards sponsored by the Instrumental Music Booster organization

COURSE # 7560

Instrumental Lessons

Level: Non-weighted

Grade Level: 9-12

Credits: 0.0

Prerequisite: Enrollment in Band or Orchestra

Students may also schedule one lesson per week in addition to Band and Orchestra instruction.

Half-Credit Music Elective Courses

COURSE # 7500

Introduction to Music

Level: Non-weighted

Grade Level: 9, 10, 11, 12

Resolvable around Lab: No

This course is designed for students interested in learning about music as it was enjoyed from the time of J.S. Bach through the current trends in "Pop" music. Basic music theory will be introduced to allow students to better understand how music has evolved over time. Lovers of Art, Architecture, Theatre and Civics will also find the course interesting since Music has gone hand-in-hand with them throughout the ages. Students are not required to have previous knowledge of music theory or proficiency on any instrument to take this course.

Business, Computer and Information Technology Education Department

<http://www.neshaminy.org/domain/156>

Business, Computer and Information Technology Education Department

The BCIT Program is an essential part of a comprehensive high school curriculum and provides learning opportunities that a student will use throughout his or her lifetime. BCIT courses are designed to meet the needs of students upon graduation whether they plan to enter the work force or pursue a post-secondary education. Students can earn college credits now for specified BCIT courses through the Dual Enrollment Program with Gwynedd Mercy University. These credits are transferable to other universities.

All students may elect courses in the BCIT Department every year. Students have the option of choosing electives, which are part of the BCIT Certificate Programs, or choosing electives that are of personal interest. Whatever the reason, BCIT subjects are relevant to the present and future lives of every student and prepare today's students for the competitive world of tomorrow.

Academic Achievement Certification Programs

The BCIT Department has developed seven Certificate Programs that recognize achievement and competency. In order to receive a certificate by the end of senior year, students follow the planned program of study as outlined below for a particular certificate. The department chairperson will evaluate all applications for certificates on an individual basis. Students are required to obtain at least a 3.0 average encompassing all business electives taken. The certificate is awarded at the Senior Awards Ceremony to those students who successfully complete the certificate requirements.

Accounting Certificate

- Accounting 1
- Accounting 2
- Accounting 3 Honors **or** a BCIT Law course
- Information Technology 1
- One business elective chosen by the student

Computer Applications Certificate

- Information Technology 1
- Information Technology 2
- Microsoft Certification Prep
- Cyber Forensics and Digital Law
- One business elective chosen by the student

Finance and Investment Certificate

- Finance and Investment
- Accounting 1
- Microeconomics
- Information Technology 1
- One business elective chosen by the student

Entrepreneurship Certificate

- Entrepreneurship
- Accounting 1
- Finance and Investment
- Social Networking for Careers
- One business elective chosen by the student

Management Certificate

- Management in Sports and Entertainment
- Microsoft Certification Prep
- Information Technology 1
- Cyber Forensics and Digital Law
- One business elective chosen by the student

International Business Certificate

- International / Global Business
- World Language (3 full years of same language, B avg.)
- Cyber Forensics and Digital Law
- Social Networking for Careers
- One business elective chosen by the student

Marketing Certificate

- Marketing for Sports, Entertainment & Events **or** Marketing for Fashion, Hospitality and Tourism
- Entrepreneurship
- Cyber Forensics and Digital Law
- Social Networking for Careers
- One business elective chosen by the student

Business, Computer, and Information Technology Education Department

Dual Enrollment/College Credits

A dual enrollment agreement has been formed between the BCIT Department of Neshaminy High School and Gwynedd Mercy University. Neshaminy offers students the opportunity to be enrolled in both a high school class and a college class simultaneously. Students will receive three undergraduate credits from Gwynedd Mercy University in June for each specified course. These credits are transferable to other colleges and universities.

Basic Information

Tuition: \$400 per Course

Eligibility:

- The student is making satisfactory progress toward fulfilling applicable secondary school graduation requirements as determined by Neshaminy School District.
- The student demonstrates readiness for college-level coursework by maintaining a 2.5 cumulative GPA through grade 10.
- The student may secure an application packet from any BCIT teacher. The packet provides detailed information.

Dual-Credit Courses:

- Course # 6040 Accounting 2 (Neshaminy) / Principles of Financial Acctg 105 (Gwynedd)
- Course # 6050 Accounting 3 (Neshaminy) / Principles of Financial Acctg 106 (Gwynedd)
- Course # 6120 Information Technology 2 (Neshaminy) / CIT 101 (Gwynedd)
- Course # 6125 Honors Microeconomics (Neshaminy) / Microeconomics 102 (Gwynedd)
- Course # 6225 Honors Macroeconomics (Neshaminy) / Macroeconomics 103 (Gwynedd)

Financial Literacy Certification

Students taking the BCIT Finance and Investment Course (6170) will have the opportunity to become certified in Financial Literacy by completing a ten module program. The BCIT Department partnered with the nation's leading financial literacy software company, EverFi Inc., to bring this opportunity to our students. EverFi's program reinforces classroom lessons with simulations that mirror real life decision making in regard to personal money management issues. Students must pass assessments in Budgeting, Saving, Banking, Credit Cards, Payments and Interest Rates, Credit Score, Financing Higher Education, Renting vs/ Owning, Taxes and Insurance, Consumer Fraud and Investing. The certification is an excellent beginning in the pursuit of developing good money management skills that can empower students for a lifetime.

Business, Computer, and Information Technology Education Department

COURSE # 6000

Grade Level: 9, 10

Resolvable around Lab: Yes

Introduction to Business

Level: Non-weighted

Credits: 1.0

Success starts here! This course introduces students to the world of business and prepares them for the economic roles of consumer, worker, and citizen. Students will learn basic business functions and operations in the business community, plus the skills needed to compete successfully as lifelong consumers. Students gain real world experience as they explore units in money, advertising, banking, investments, insurance, entrepreneurship, consumer credit, and career awareness. Projects and activities include: on-line stock market simulation, an advertising campaign, and guest speakers.

COURSE # 6270

Grade Level: 9, 10, 11, 12

Resolvable around Lab: Yes

Microsoft Certification Prep

Level: Non-weighted

Credits: 1.0

Students will develop their software application skills using Microsoft Word, PowerPoint and Publisher. Curriculum will support student preparation for Microsoft Certification in Word and PowerPoint. Skill development in MS Word may include: formatting documents and tables, mail merge and integration, working with graphics and creating forms. A unit in Dragon Naturally Speaking voice recognition software will also be taught.

Skill development in MS PowerPoint may include: proper use of digital imaging, scanning, sounds, voice, music and video incorporation for slide presentations. Skill development in MS Publisher may include: essential elements of design, working with digital images from cameras and scanners, using software templates, and applying tools to create accurate sizing and layout options for brochures, banners, business cards and other customized marketing projects. To obtain certification, students may need to make arrangements with an official Microsoft testing site, such as Bucks County Community College.

COURSE # 6130

Grade Level: 9-12

Resolvable around Lab: Yes

Marketing for Sports, Entertainment & Special Events

Level: Non-weighted

Credits: 1.0

This course introduces the functions of marketing by examining the areas of sports and sporting events, the entertainment industry and organizing special and annual events. Combining the text with current events enables the student to learn about the concepts of leadership, finance, product management, human resources, legal and ethical issues, managing change and customer relations. Practical applications of knowledge are provided through activities including internet research and simulations that promote discussion and creative thinking.

COURSE #6140

Grade Level: 10, 11, 12

Resolvable around Lab: Yes

Prerequisite: Marketing Sports#6130 or Fashion #6280

Management for Sports and Entertainment

Level: Non-weighted

Credits: 1.0

In this course students will discover that management is the process of accomplishing the goals of an organization through the effective use of people and appropriate resources. The course is designed to offer a comprehensive view of the management procedures and operations in the Sports and Entertainment Industry, plus broader industries as well. Students will utilize the skills and processes that the 21st Century manager needs to become successful. Students will engage in case studies, a business simulation and problem solving activities that will model decision making opportunities typically found by managers.

COURSE # 6010

Grade Level: 9, 10, 11, 12

Resolvable around Lab: Yes

Accounting 1

Level: Non-weighted

Credits: 1.0

Accounting 1 provides entry-level job skills and preparation for collegiate study in the field of accounting. Students receive hands-on experience learning the basic tasks involved with the accounting cycle. Learning these tasks allow students to demonstrate the ability to prepare journals, ledgers, and financial statements for two types of businesses: service and merchandising. Students will learn how to analyze and interpret basic financial information. Students will also explore career path options that utilize accounting skills. Accounting 1 satisfies the requirement of a one year math credit.

Business, Computer, and Information Technology Education Department Continued

COURSE # 6040

Accounting 2

Level: Non-weighted

Grade Level: 10, 11, 12

Credits: 1.0

Resolvable around Lab: Yes

Dual Enrollment Option College Credit

Prerequisite: Accounting 1

This course provides a complete review of Accounting 1 principles and introduces partnership and corporate accounting. Specialized topics include departmentalized accounting, inventory planning and valuation, accounting for plant assets, notes payable and receivable, acquiring capital and corporate financial analysis. **Google Sheets** are utilized for worksheets, journalizing, and financial statement preparation. This course provides a solid foundation for any college business major.

COURSE # 6050

Accounting 3 Honors

Level: Honors

Grade Level: 11, 12

Credits: 1.0

Resolvable around Lab: Yes

Dual Enrollment Option College Credit

Prerequisite: Accounting 2

This is a weighted grade course where students experience advanced accounting procedures and practices. There is a strong emphasis on the interpretation of financial statements. Students will apply accounting procedures to evaluate plant assets, report current and long-term liabilities, and determine stockholders' equity. Students will apply financial ratios and component percentages to measure changes in activity.

COURSE # 6110

Information Technology 1

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

College business majors are required to pass an **Excel** proficiency exam or take a remedial non-credit course. Successful completion of this course ensures the student will have the **Excel** knowledge and skills needed for college. This is a **Microsoft Excel** course providing step-by-step lessons in database, spreadsheet, charting, and integration skills and concepts. Each new lesson builds on the skills previously learned. Students will also collaborate on spreadsheet assignments using **Google Docs**.

COURSE # 6120

Information Technology 2

Level: Non-weighted

Grade Level: 10, 11, 12

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: Information Technology 1 Dual Enrollment Option College Credit

Information Technology 2 emphasizes building Microsoft Office Expert skills in **Excel**. Advanced skills involving formulas, validation, multi-page projects, lookups, spreadsheet format, charting, graphics and integration will be developed. In addition, financial functions such as payment, future value of money and depreciation will be covered. A unit in **MS Access** (industry's most used database software) will also be taught.

COURSE # 6170

Finance & Investment

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

The Finance and Investment course empowers students to become financially responsible with personal money issues. With citizens being more responsible now for their own financial future, it is important to understand how to invest and manage money. Course topics include: financial goals, career planning, money management, building wealth with investments, consumer skills such as buying a car, a home, risk protection from fraud, and financial planning for higher education. Students are engaged in the course using a combination of methods for learning including internet research, classroom discussion and simulations. Students may also obtain a Financial Literacy Certification award if successfully passing benchmarks.

Business, Computer, and Information Technology Education Department

COURSE # 6070

Grade Level: 9-12

Resolvable around Lab: Yes

Entrepreneurship and Innovation

Level: Non-weighted

Credits: 1.0

Think you want to be a business owner? This course teaches students how to recognize a business opportunity and focuses on the steps necessary to create, own and operate a successful business. It also emphasizes that it is the entrepreneurial mindset that can use innovation to improve performance, remain competitive, find solutions to social issues while generating profit. Topics include: characteristics of entrepreneurs, types of ownerships, the business plan, marketing mix, management, financial reporting, and social entrepreneurship and thinking innovatively with an entrepreneurial mindset.

COURSE # 6210

Grade Level: 9-12

Resolvable around Lab: Yes

International Business

Level: Non-weighted

Credits: 1.0

One in six jobs in the United States is directly or indirectly dependent on global trade. Competition for employment is no longer concentrated in the United States. There is competition for jobs in every corner of this global economy. This course explores the basics of international business including; how to compete in a global economy, cultural influences, governments, importing and exporting, the dollar as the currency of global trade and foreign exchange (money), and legal agreements. Students explore each of these topics in discussions, internet, and simulations. At the conclusion of the course, students will have a foundation for working in a global economy.

COURSE # 6280

Grade Level: 9-12

Resolvable around Lab: Yes

Marketing for Fashion, Hospitality and Tourism

Level: Non-weighted

Credits: 1.0

This course is designed to introduce students to the fashion, hospitality and tourism industries. Students will be introduced to basic marketing concepts and strategies used in all three industries. Focusing on the current industry standards, students will acquire an understanding of terminology and current consumer trends. Students will develop an awareness of the world of work and explore options in careers and higher education. Guest speakers will be invited to provide students with "real world" perspectives and experiences.

COURSE # 6090

Grade Level: 9-12

Resolvable around Lab: Yes

Criminal and Civil Law in the Justice System

Level: Non-weighted

Credits: 1.0

Students considering a career in law enforcement, criminal justice, business law or paralegal studies may want to begin to understand the general principles of criminal and civil law. Coverage in criminal law includes the juvenile justice system, the criminal procedure, legal evidence and the investigation process. Coverage in civil law examines contracts, sales and property law, and business law. Emphasis on the application of legal rules to solve hypothetical and real life legal problems will be experienced by students.

COURSE # 6125

Grade Level: 11, 12

Resolvable around Lab: Yes

Dual Enrollment Option College Credit

Honors Microeconomics

Level: Honors

Credits: 1.0

Weighted: 5.0

How do economists predict what will happen in the markets? Principles of microeconomics are taught as they apply to supply and demand for products, and the maximization of corporate profit under various market conditions. Students will examine both the public and private sectors of the economy, as well as how government intervention or lack of intervention impacts the economy. Students will evaluate the efficiency of the outcomes with respect to price, output, consumer surplus, and producer surplus. The microeconomics course draws on current and past market conditions such as fluctuating stock market levels and gas prices, how to interpret these conditions and develop a prediction of market and economic behavior.

Business, Computer, and Information Technology Education Department

COURSE # 6225

Honors Macroeconomics

Level: Honors

Grade Level: 12

Resolvable around Lab: Yes

Dual Enrollment Option College Credit

Prerequisite: Microeconomics

Credits: 1.0

Weighed: 5.0

Macroeconomics is designed to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. This course places an emphasis on the study of national income and price determination, and also develops a familiarity with economic performance measures, economic growth, and international economics. There is an in depth look at inflation, unemployment and price stability. Additionally, the financial sector of an economy is examined including how money works, the money supply and factors that affect demand for money.

COURSE # 6095

Cyber Forensics and Digital Law

Level: Non-weighted

Grade Level: 9-12

Resolvable around Lab: Yes

Credits: 1.0

Students considering an interest or curiosity in the fields of: Computer Science, Computer Engineering, Computer Forensics and Criminal Justice should understand the legal and ethical issues associated with information security and investigation. Forensics will be examined as a method to build evidence in a legal setting about essential facts in high tech crimes. Students will learn about cyber law in the areas of civil and criminal law as it applies to the use of computers, transactions conducted over the internet, websites, email, cellphones, software and hardware such as storage devices. Students will also learn about the role of law enforcement (local, state and federal), fraud, impersonation, preserving metadata and legal ramifications when using open wi-fi and other electronic devices.

COURSE # 6100

Business Mathematics

Level: Non-weighted

Grade Level: 11,12

Resolvable around Lab: Yes

Credits: 1.0

Business Math is a course designed for students to apply business applications in the real world. This course will help students manage their personal finances effectively in the future. Units include money management, expenses, and making financial decisions. Topics will include gross pay, net pay, budgeting, checking & savings accounts, credit cards & credit scores, and vehicle leasing and purchasing. Business Math satisfies the requirement of a one year of math credit.

Business Half-Credit Electives

COURSE # 6220

Keyboarding

Level: Non-weighted

Grade Level: 9-12

Resolvable around Lab: No

Credits: 0.5 Even/Odd

Keyboarding is designed to help students develop speed and accuracy by learning the touch operation of alphanumeric/keyboard characters. Emphasis is placed on the following: desirable keyboarding techniques, speed and accuracy of touch typing, and the proper use of hardware & software in the classroom. Formatting of documents and technique will be demonstrated by utilizing several online websites and **Microsoft Word 2010**.

COURSE # 6230

Business SIM and APP Programming

Level: Non-weighted

Grade Level: 9-12

Resolvable around Lab: No

Credits: 0.5 Even/Odd

Students will have an opportunity to enhance their software development skills with APP creation, business simulation and web design tools. Even if you have never programmed before, this course is for you. Two key concepts are the basis of this course: 1) creating APPs and practical business simulations, plus (2) marketing the APP/SIM through a custom designed website. Projects will guide students through a series of programming applications. Languages and software may include but are not limited to: HTML, CSS, Dreamweaver, Flash, Photoshop, Gamemaker, Alice, Scratch and JavaScript. Opportunities will also be available for students to submit their projects to various computer science and business competitions (Future Business Leaders of America).

Business, Computer, and Information Technology Education Department

COURSE 6080

Grade Level: 9-12

Resolvable around Lab: No

Social Networking for Careers

Level: Non-weighted

Credits: 0.5 Even/Odd

Take advantage of new opportunities that can connect you to employment or influence your career. This course has the ability to do this and impact personal goals by using digital and social media platforms to develop communication skills. By using a hands-on classroom experience, students will learn how to build their personal profile on **Twitter, Instagram, Pinterest, You Tube, LinkedIn, Facebook, Google Docs** and other social media sites. Students will also navigate with **Outlook** to improve organizational skills. Marketing and public relations applications are also explored. This course will allow students to become the creators and authors of appropriate digital content. The students should be able to strategically use social networking tools to engage their audience in new and exciting ways. Students electing this class must have an understanding of how to use the Internet and will need to have access to the Internet outside of the classroom.

School to Work Program

COURSE # 5312

Grade Level: 12

Resolvable around Lab: Yes

Prerequisite: Verifiable Employment; Approval of SWTP Director and Grade Level Principal

Cooperative Education

Level: Non-weighted

Credits: 1.0 for Class

2.0 for on Job Experience

The School to Work Transitional Program (SWTP) is designed to provide an opportunity for senior students to work in an approved job station, supervised both by the student's employer and the School To Work Transitional Program instructor. The school to work program student will earn two course credits for successful on-the-job experience, and a third course credit for successful participation in a daily seminar class.

The daily seminar class will consist of job-related instruction designed to assist students in the various aspects of the world of work, as well as provide an opportunity for career exploration and individual career planning. In addition to the seminar class, students will select an English, Social Studies and a Physical Education course. Students may schedule additional subjects if desired or if necessitated by graduation requirements. All SWTP credits count for graduation.

SWTP students will have their schedule arranged to complete all courses in the morning and be excused early to report to the job. Transportation to work is the responsibility of the student. Students are required to have working papers before entering the SWTP Program.



Family and Consumer Science Department

Family & Consumer Science (FCS) curriculum focuses on the interrelationships between personal well-being, family, community, and career. FCS integrates the knowledge taught in other disciplines as it applies to the skills needed for real-life experiences. FCS prepares students to be proactive in managing life's emerging and challenging issues and equips them for the future: functioning as family members, consumers, citizens, and wage earners. FCS provides opportunities to develop the knowledge, skills, attitudes, and behaviors necessary to be 21st Century thinkers, creators, collaborators, and leaders.

COURSE # 8020

Grade Level: 9-12

Resolvable around Lab: Yes

FCS Major: Featuring Community Service

Level: Non-weighted

Credits: 1.0

The FCS Major prepares students for their future as responsible, respectful, and contributing individuals. The heart of this elective is character education with focus on service learning through creative collaboration during practical experiences in food preparation, project design, and event planning. Contributing to activities that help the community and its' members gives students a valuable perspective as they enjoy the personal reward and responsibility of giving. Lessons in the FCS Major promote personal growth, build leadership and teamwork, and are excellent enhancements to a student's resume` and/or college application.

COURSE # 8010

Grade Level: 9-12

Resolvable around Lab: Yes

An Introduction to Child Development & Parenting

Level: Non-weighted

Credits: 1.0

In this FCS elective, students learn about real life issues affecting parents, caregivers, and those involved in careers related to children. The content of the course includes: the importance of early childhood education for brain development, developmental theory, effective parenting techniques, and issues surrounding teen pregnancy like child abuse. In addition, the physical, intellectual, emotional and social developmental of children from birth to age five will be explored. This course provides the formal child-care education hours required for the C.D.A.-Ready certification: the candidacy prerequisite for the nationally recognized C.D.A (Child Development Associate) credential.

COURSE # 8070

Grade Level 9-12

Resolvable around Lab – Yes

Fashion Design, Engineering, & Construction

Level: Non-weighted

Credits: 1.0

This FCS elective teaches students about the history and trends in fashion. A study of the elements and principles of design allows students to learn how to manipulate color, line, texture, pattern, proportion, and balance to design a flattering garment for a specific feel and body type. Students will use the STEM design process as they effectively use the latest CAD software, Digital Fashion Pro, to experience how designers in the 21st century create wearable garments. A forum with Entrepreneurship students will help students understand the business side of creating a clothing line.

Textile science will be explored so students know how to choose fabric with the optimum characteristics for their designs. Students will be trained to safely use the latest equipment and tools for construction of their designs. This course will culminate by working with the Fashion Marketing students to plan and execute a fashion showcase event.

COURSE # 8000

Grade Level: 9-12

Resolvable around Lab: Yes

Child Development & Parenting

Level: Non-weighted

Credits: 1.0

In this course, students learn about real life issues affecting parents, caregivers, and those involved in careers related to children. Students study the growth, development, and guidance of preschool children in the Neshaminy Child Development Laboratory by planning, preparing, and observing learning activities for our community's young children. Students who plan a career in teaching or the child care industry can earn the lab experience hours required for the C.D.A-Ready certification in this course: the candidacy prerequisite for the nationally recognized C.D.A. (Child Development Associate) credential.

Family and Consumer Science Department

COURSE # 8040

Grade Level: 9-12

Resolvable around Lab: Yes

\$10.00 Fee for supplies

Today's Foods

Level: Non-weighted

Credits: 1.0

Today's Foods offers a hands-on approach to developing the skills in food preparation techniques through a variety of cooperative and independent learning activities. Students learn how to read a recipe, examine the functions of different ingredients, and apply the principles of food science, with an emphasis on food safety and sanitation. This course includes meal management and preparation, as well as the important relationship of diet to health, including factors relating to the necessity of breakfast, snack foods, and foods used for celebrations. Current consumer trends are evaluated and paired with food selections to enable students to make wise choices throughout their lifetime. Science, math, economic, and communication skills are reinforced throughout this course experience.

COURSE # 8060

Grade Level: 9-12

Resolvable around Lab: Yes

Independent Living

Level: Non-weighted

Credits: 1.0

Independent Living is an exceptionally relevant course designed to prepare students to face the challenges of living on their own. Students will complete many of their graduation project requirements as they explore personal aptitudes, interests, careers, and higher education opportunities. This course focuses on critical components of teen and adult living: money management, relationships, life-style, housing, and personal renewal. Students will leave this course with the understanding and tools necessary to live life to its fullest potential.

COURSE # 8050

Grade Level: 9-12

Resolvable around Lab: Yes

\$10.00 Supply Fee

Honors Nutrition & Dietetics Fitness for Life

Level: Honors

Credits: 1.0

This course provides an investigation into the positive impact good nutritional practices have on physical and mental health, disease prevention, longevity, and optimal athletic performance. A scientific examination of the nutrients provided by the different food groups exposes the necessity of eating a variety of fresh, nutrient-dense foods from nature, not factories. A study of the body's digestive system, including the functions of the specific organs and cells in this metabolic pathway, reveals how the body converts ingested food into the nutrients needed for good health. The biochemical functions of the macro and micronutrients when providing energy for life activities and athletic performance are enhanced through food science experiments. Students develop a new perspective regarding the influence of consumers, culture, the food industry, government, and technology on our food supply and food choices. Students have the opportunity to prepare and sample a variety of healthful fresh foods, including "superfoods", in the lab portion of this course.

Video: <http://animoto.com/play/11q3bJ6SEzUfJdFbGofCHq>

Website: <http://www.neshaminy.org/domain/158>

Technology and Engineering Education Department

Technology affects every aspect of our lives, from enabling citizens to perform routine tasks to requiring that they be able to make responsible, informed decisions that affect individuals, our society, and the environment. In response to the technological society that we live in, the Technology and Engineering Education department has focused on helping students become technologically literate. This goal is achieved through a project-based curriculum that focuses on design technology, problem-solving skills, and the practical application of math and science concepts in order to enhance critical and creative thinking.

COURSE #8330

Graphic Design 1

Level: Non-weighted

Grade Level: 9- 12

Credits: 1.0

Resolvable around Lab: Yes

Graphic Design I introduces the students to basic graphic communication processes. By employing fundamental design concepts such as the Elements of Design and the Principles of Design, the students will use image generation (Adobe Illustrator) and image manipulation (Adobe PhotoShop) software to design and reproduce solutions to graphic design problems. Additionally, the students will be introduced to the screen printing process by completing a single color print job, and a 2 color print job with registration. Adobe Illustrator and Adobe PhotoShop are part of the Adobe Creative Suite, which is the industry standard software suite for Graphic Design.

COURSE #8310

Graphic Design 2

Level: Non-weighted

Grade Level: 10, 11, 12

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: Graphic Design I

Graphic Design II expands on the concepts taught in Graphic Design I, with the focus of the course shifting from print to electronic media. Students will expand their use of the Elements of Design and the Principles of Design, to solve more complex graphic design problems. More advanced features of Adobe Illustrator and Adobe PhotoShop are explored, and basic web design techniques are introduced. Additionally, the students will have the opportunity to produce a 3 or 4 color screen printing project, with registration. The course concludes with the students having a web based, electronic portfolio with all their work from Graphic Design I and Graphic Design II included. This course is recommended for all students who are considering a career in the Graphic Design Industry.

NOTE: With approval from the instructor, students are permitted to retake, and receive credit for, Graphic Design II. Students who repeat this course develop an independent study program with the help of the instructor.

COURSE #8220

Honors Robotics

Level: Honors

Grade Level: 9- 12

Credits: 1.0

Resolvable around Lab: Yes

This course has been designed for students who would like to explore the rapidly expanding technologies involved in building, programming, and controlling robots. Through the use of the LEGO Mindstorm robotic kits, the students will build robots that use light, ultrasonic, sound, touch, and motion sensors to perform a variety of tasks. These skills are challenged through the LEGO Green City Challenge. Tetrix, an aluminum construction set, and RC controllers are introduced to the students to build stronger and more powerful robots. These robots require coding in the language RobotC. The course parallels Carnegie Mellon University's Robotics Academy.

COURSE # 8390

Manufacturing & Construction

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

The Manufacturing and Construction course is designed to use wood, wood substitutes, metals, and plastics in the manufacturing and construction of today's products. Student activities include an overview of the woodworking and metalworking industries, safe use of hand tools and machines, technical research product planning, problem solving, and experimentation in the manufacturing laboratory. Students participate in individual and group problems and activities.

Technology and Engineering Education Department

COURSE # 8380

Advanced Manufacturing and Construction

Level: Non-weighted

Grade Level: 10, 11, 12

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: Manufacturing and Construction

Advanced Manufacturing and Construction challenges students to identify, research solution, and develop individual products with instructor approval. Group manufacturing and construction activities are used to teach the industrial process from concept through marketing and distribution with emphasis on efficiency, accuracy, and cooperative working. Students are encouraged to combine materials (wood, metal, plastics) in the design and production of products.

COURSE # 8250

Honors Architectural & Interior Design 2

Level: Honors

Grade Level: 10, 11, 12

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: Architectural & Interior Design I

This course involves advanced techniques in preparing house plans and the detailed construction of a to-scale house. Students work with square footage and room requirement limitations to design their house and then use the Computer-Aided-Design/Drafting (CADD) software to complete their drawings. Students will also prepare a series of Interior Design schemes for several rooms in their house. The students will construct a to-scale, 3 dimensional model of their houses.

COURSE # 8400

TV & Video Production 1

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

This hands-on course allows students to plan and design effective visual media. Students will have the opportunity to use state-of-the-art Adobe Premiere video editing software, iMac Computers, and various cameras to complete in class assignments. Assignment topics include, but are not limited to; How To Videos, Music Videos, and Public Service Announcements. Additionally, students will learn how to utilize Lighting, Shot Angles and Styles, Storyboarding and Blue / Green Screening techniques used in professional broadcasting and movie making industries.

COURSE # 8410

TV & Video Production 2

Level: Non-weighted

Grade Level: 10, 11, 12

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: TV & Video Production I

This course expands and dives further into the student knowledge gained in TV and Video 1. Students will create visual media on a more sophisticated level. Students will get the chance to film and edit various activities that go on throughout the school year at Neshaminy including, sporting events, school plays, Gym Night and Powder puff which have the potential to be shown on the Neshaminy Channel or on TV during school lunch hours. Students are also required to, and are responsible for, directing and producing the Neshaminy morning announcements. This will necessitate being in the TV & Video Homeroom. Finally, students will learn about various topics including infomercials, commercials and how to conduct, perform and edit interviews which are used in various segments, such as "Teacher / Student of the Week", "This Week in the News" and "Mad Reviews" seen on the school announcements.

COURSE # 8370

Power, Energy & Transportation 1

Level: Non-weighted

Grade Level: 9- 12

Credits: 1.0

Resolvable around Lab: Yes

In this hands-on, activity based course, students will explore a variety of transportation systems and the power and energy systems associated with them. Students will use the "Technological Design Process" to master these concepts through various projects including, but not limited to, magnetic levitation trains, mouse trap cars, model rocketry, boat hull design, marble mazes, and CO₂ dragsters. Students in this course will also gain skills and practical experience working safely with the basic tools and machines found in the materials lab.

Technology and Engineering Education Department

COURSE # 8360

Grade Level: 10, 11, 12

Resolvable around Lab: Yes

Prerequisite: Power, Energy & Transportation I

Power, Energy & Transportation 2

Level: Non-weighted

Credits: 1.0

This advanced level of Power, Energy and Transportation continues to examine the different systems introduced in the Level I course. More advanced and complicated subsystems are explored. Topics include the transmission of power and energy, fuel management, gears, belt drives, electrical currents, solar energy, aerodynamics, hydraulic, pneumatic and mechanical power systems. Activities include, but are not limited to, gear driven cars, hydraulic lifting devices, solar-powered vehicles and ATV's. Students also have the opportunity to further develop skills associated with the basic tools and machines found in the materials lab.

ENGINEERING ACADEMY

The Neshaminy Engineering Academy represents a sequence of courses that are designed to develop a student's ability to solve problems and think critically and creatively by completing hands-on activities that are based on real world problems. The core of the Academy addresses the educational needs of students planning on a post high school educational program at a 2 or 4 year college, leading to a career in engineering or engineering technology, but the program is open to all students. The courses offered in the Engineering Academy are part of a pre-engineering program called Project Lead the Way (PLTW). This project is a nationwide program that has aligned the participating schools with major universities across the country to provide a greater advantage to those students who feel they may be interested in pursuing a career in engineering, architecture and design-related fields. The courses are designed to expose the student to a vast world of engineering through various experiential learning scenarios. Colleges that offer engineering as a major look favorably upon students that have taken PLTW coursework as part of the admission cycle.

COURSE #8205

Grade Level: 9- 12

Resolvable around Lab: Yes

Honors Introduction to Engineering Design

Level: Honors

Credits: 1.0

This course is a hands-on, activity based course that develops students' problem solving and critical thinking skills through the application of the design process. In this course, students use 3D solid modeling design software to help them design solutions to solve proposed problems. Students will learn how to document their work and communicate solutions to peers and members of the professional community. Various engineering & technical career opportunities are explored and discussed.

NOTE: This course is intended to be the first course in the PLTW sequence.

COURSE # 8215

Grade Level: 10, 11, 12

Resolvable around Lab: Yes

Honors Principles of Engineering

Level: Honors

Credits: 1.0

Principles of Engineering (POE) is an introductory engineering course designed to provide students with hands-on experiences in a variety of engineering areas. In the Energy & Power unit, students will build simple and complex machines, gear trains, electrical circuits, solar and hydrogen fuel cell vehicles and a winch system. In the Materials & Structures unit, students will investigate structures, build and test virtual bridges, balsa trusses and analyze material properties. Students will also build and program robotic vehicles and projects, explore and build hydraulic and pneumatic fluid systems in the Control Systems unit. Projectile motion is covered in the Kinematics part of the course and includes virtual and actual projectile launches as well as statistics and probability lessons. POE emphasizes problem-solving skills and integrates the study of science, technology, engineering and math (STEM). This course provides students with a comprehensive overview of many engineering fields.

Technology and Engineering Education Department

ENGINEERING ACADEMY CONTINUED

COURSE # 8260

Grade Level: 9-12

Resolvable around Lab: Yes

Honors Civil Engineering and Architecture**Level: Honors**

Credits: 1.0

Students will complete hands-on projects that involve the development of property sites and civil structures. In this course students will face the same real life scenarios that civil engineers and architects encounter on a daily basis in order to learn the principles and practices of civil engineering and architecture. This will be accomplished through team and individual work. The students will also use 3D design software to help them develop solutions to course assignments. The major areas of focus are land surveying, water resources and management, environmental issues, soil testing, architectural building design, landscape design, model building and structural strength of materials.

COURSE # 8350

Grade Level: 10, 11, 12

Resolvable around Lab: Yes

Honors Computer Science and Software Engineering**Level: Honors**

Credits: 1.0

Computer Science and Software Engineering (CSE) will develop computational thinking skills in order to solve open ended, practical problems that occur in the real world. The course focuses on introducing students to object oriented programming environments, specifically the Python language. Students will eventually code their own applications for use on a provided Android tablet. Students will also have the opportunity to create interactive web 2.0 software working with HTML5, CSS, and JavaScript.

COURSE # 8300

Grade Level: 10, 11, 12

Resolvable around Lab: Yes

Honors Digital Electronics**Level: Honors**

Credits: 1.0

Digital Electronics (DE) provides the foundation for all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, and HDTV. The major focus of the DE course is to expose students to electronics laws and concepts, design processes, and engineering standards. Students will gain experience with a variety of hands-on activities including soldering, bread-boarding of circuits, and programming Arduino-based robots. Students will use industry-standard software to plan, simulate, test and troubleshoot various digital logic circuits.



World Language Department

The basic goal of World Language study is to provide students with the opportunity to develop communication skills (listening, speaking, reading, and writing) in another language. A logical learning sequence is provided so that teachers may help the students learn to build to the most important language skills of improvisation and free communication. It is also the intent of the World Language Department to provide occasions for observing other cultures.

Courses are offered in French and Spanish. A student **must receive a final grade of C or higher in order to continue to the next level.** Since knowledge of a second language and the ability to communicate effectively in that language develop over time, it is highly recommended that a student complete the fourth or fifth year of the chosen language. A student may study two languages concurrently.

COURSE # 5010

COURSE # 5210

Grade Level: 9-12

NCAA Core: Yes

Resolvable around Lab: No

French 1

Spanish 1

Level: Non-weighted

Level: Non-weighted

Credits: 1.0

These courses concentrate on developing students' language skills and cultural awareness in order to communicate effectively in the language. Instruction includes communicative drills, small-group activities, and culture-oriented role-plays. Performance assessments include guided conversations and individual oral and written presentations.

COURSE # 5020

COURSE # 5220

Grade Level: 10, 11, 12

NCAA Core: Yes

Resolvable around Lab: No

Prerequisite: French 1/Spanish 1

French 2

Spanish 2

Level: Non-weighted

Level: Non-weighted

Credits: 1.0

These courses continue the development of language skills and cultural awareness in order to communicate effectively in the language. Instruction includes communicative drills, small-group activities, and culture-oriented role-plays. Performance assessments include guided conversations and individual oral and written presentations.

COURSE # 5030

COURSE # 5230

Grade Level: 11, 12

NCAA Core: Yes

Resolvable around Lab: Yes

Prerequisite: French 2/Spanish 2

French 3

Spanish 3

Level: Non-weighted

Level: Non-weighted

Credits: 1.0

These courses focus on vocabulary building and grammar skills that support communicative activities. Students are presented with conversations and readings as they begin to discuss information in the target language. Students narrate in the past, present, and future tenses. Performance assessment includes writing and presenting an original dialogue that reflects the vocabulary and grammatical structures learned.

COURSE # 5025

COURSE # 5225

Grade Level: 10, 11, 12

NCAA Core: Yes

Resolvable around Lab: No

Prerequisite: Recommended by their current Spanish/French teacher based on the following criteria:

- *First, second marking period & Mid Term grades of B or higher.*

French 2/3 Honors

Spanish 2/3 Honors

Level: Honors

Level: Honors

Credits: 1.0

These courses will combine the current level 2 and 3 curriculum to ensure that students are challenged. Students will gain the knowledge and know how to continue on to the higher levels of their chosen language.

World Language Department

COURSE # 5040

COURSE # 5240

Grade Level: 11, 12

NCAA Core: Yes

Resolvable around Lab: Yes

Prerequisite: French 3/Spanish 3

French 4 Honors

Spanish 4 Honors

Level: Honors

Level: Honors

Credits: 1.0

A level IV Honors course presents more complex structures of basic language and continues to expand the cultural awareness of the speakers of the target language. Conversation becomes more spontaneous, and students develop the ability to express emotion, doubt, and preferences. Students read both factual information and literature and give written and oral reports. The final exam includes a performance assessment consisting of a 5- to 10- minute video that reflects vocabulary, structures, and culture studied.

COURSE # 5050

Honors French 5 - Advanced Conversation

Level: Honors

Grade Level: 12

NCAA Core: Yes

Resolvable around Lab: Yes

Prerequisite: French 4/Spanish 4

Credits: 1.0

This course is intended for students wishing to further enhance their conversational skills in the French language. This course is designed to help students hear and understand spoken French with greater ease and to speak with greater accuracy. Students will learn the strategies, vocabulary, and advanced-level structures that will allow them to participate more fluently and confidently in a variety of spoken contexts, both formal and informal. Some of the conversational functions and strategies covered include reporting, giving advice, conducting interviews, expressing differences of opinion, expressing aesthetic judgments, and reading aloud. Students will have the opportunity to discuss current events and culturally relevant materials, engage in debate, and talk about their personal interests. Prerequisite: Dual enrollment in French 4 Honors and Honors Advanced Conversation - French; French 4 honors students who have earned a B or better the previous year, with permission from instructor.

COURSE # 5250

Honors Spanish 5 - Advanced Conversation

Level: Honors

Grade Level: 12

NCAA Core: Yes

Resolvable around Lab: Yes

Prerequisite: French 4/Spanish 4

Credits: 1.0

This course is intended for students wishing to further enhance their conversational skills in the Spanish language. This course is designed to help students hear and understand spoken Spanish/ French with greater ease and to speak with greater accuracy. Students will learn the strategies, vocabulary, and advanced-level structures that will allow them to participate more fluently and confidently in a variety of spoken contexts, both formal and informal. Some of the conversational functions and strategies covered include reporting, giving advice, conducting interviews, expressing differences of opinion, expressing aesthetic judgments, and reading aloud. Students will have the opportunity to discuss current events and culturally relevant materials, engage in debate, and talk about their personal interests. Prerequisite: Dual enrollment in Spanish 4 Honors and Advanced Conversation ; Spanish 4 honors students who have earned a B or better the previous year, with permission from instructor.

COURSE # 5060

COURSE# 5260

NCAA Core: Yes

Resolvable around Lab: Yes

Prerequisite: A/B French 3 and 4 and Teacher recommendation

A/B Spanish 3 and 4 and Teacher recommendation

AP French 5

AP Spanish 5

Level: AP

Credits: 1.0

This course is designed to increase the level of proficiency with which students express themselves in written and spoken form of the target language.

This course is conducted in the target language and includes the study of the target culture, advanced grammar topics, practice in narrative and expository writing, reading comprehension, listening comprehension, and extemporaneous speaking. Students analyze, reflect on, and discuss contemporary issues through the study of authentic materials to prepare students to take the Advanced Placement Language examination (additional fee) to earn college credits.

Physical Education Department

COURSE #0090 – Grade 9
COURSE # 0020 – Grade 11, 12
Resolvable around Lab: No

Physical Education

Level: Non-weighted
Credits: 0.5

The Neshaminy School District requires each student to complete a physical education course successfully each year. This course has been developed to provide varied and safe individual, dual, team, total health fitness, recreational, and leisure time activities. Throughout the activities involved, the physical education staff adheres to the principle that our students are individuals with varying capacities or potentials and different physical, mental, social, and emotional needs. The coed grade level physical education program is activities-based.

Tennis & Pickle ball
 Mountain Biking
 Football & Soccer
 Golf

Self Defense
 Volleyball
 Open Fitness
 Wilderness Exploration

Fitness Walking
 Team Games
 Basketball
 Yoga

COURSE # 0050
Grade Level: 12
Resolvable around Lab: No

Physical Education Contract

Level: Non-weighted
Credits: 0.5

This program is designed for School To Work Transitional Program students. The student is required to form a contract with the physical education teacher to participate in a sports activity of a lifetime nature outside the regular school physical education program. There is a minimum time requirement for the student to make this agreement with the physical education teacher. Each student enrolled must contact the Physical Education teacher regarding the requirements of the course.

COURSE # 0170
Grade Level: 9-12
Resolvable around Lab: No

Adaptive Physical Education

Level: Non-weighted
Credits: 0.5

This diversified program of developmental activities for selected students is suited to the interests, capacities, and limitations of students who may not safely or successfully engage in unrestricted participation in the vigorous activities of the general physical education program.

COURSE # 0160
Grade Level: 10
Resolvable around Lab: No

Health

Level: Non-weighted
Credits: 0.5

The Neshaminy School District requires that each student must complete a planned course of health in high school. The Health course of study in grades 6 through 12 of the Neshaminy School District has been developed to provide information and experiences on topics that are relevant and pertinent to the needs and interests of our students. This includes state-required instruction in substance abuse and HIV/AIDS. It is the desire of the health education staff to satisfy the physical, mental, social, emotional, and intellectual needs of students through the development of acceptable attitudes, concepts, and critical thinking skills by decision-making techniques that will aid the students in becoming healthier and happier individuals at home, at school, and in the community, both in the present and in the future.

Physical Education Electives

COURSE # 0010
Grade Level: 11, 12
Resolvable around Lab: Yes
Prerequisite: B or better in Grade 9 PE

Exercise Science and Leadership Training

Level: Non-weighted
Credits: 1.0

Leadership 2010 and Beyond: This course provides an excellent opportunity for 11th and 12th grade students to participate in physical activity each day of the week. Physical Education Major classes meet every day, providing students an excellent opportunity to participate in physical activity and to develop leadership skills. Leadership skills will be increased through planned activities involving teamwork, communication, judgment and decision-making. Students will also have the opportunity to participate in and lead out of school activities, tournaments, and Gym Night activities to promote and refine their leadership experience.

Grade 9**Course Selection Worksheet 2015/2016****Grade 9**

- All students must carry a minimum of 6.5 Credits.
- Required Freshman Courses: Language Arts, Social Studies, Math, Science and PE.
- Select 2 or 3 Electives (see below) with alternates. Select 1 full credit course or 2 ½ credit courses for each elective and alternate.

MP CS PQ

Student's Last Name: _____ First Name _____ Guidance Counselor: _____

Period	Required Credits	Student Selection	Alternate Selection	Teacher Signature	Recommended Course
1	Language Arts		None Required		
	Course Code→		None Required	EZ OK HD	
2	Social Studies		None Required		
	Course Code→		None Required	EZ OK HD	
3	Mathematics		None Required		
	Course Code→		None Required	EZ OK HD	
4	Science		None Required		
	Course Code→		None Required	EZ OK HD	
5	Elective 1				
	Course Code(s)→				
6	Elective 2				
	Course Code(s)→				
7	Physical Ed	0009	None Required		
8	Lunch	5500	None Required		
	Elective 3 - Instead of lunch (7 th Major)				

Grade 9 Overview of Course Offerings 2015-2016

CORE COURSES

Language Arts	Social Studies	Mathematics	Science
Select a Full Year Language Arts Course	Select a Full Year Social Studies Course	Select a Full Year Math Course	Select a Full Year Science Course
1910 Honors English 9 1915 AE Honors English 9 1920 English 9 S1920 English 9 with modifications 1950 Foundations English 9	2910 Honors United States History 2 2920 United States History 2 S2920 United States History with modifications 2940 Foundations of United States History 2	3160 Honors Geometry 3005 Algebra 1 Part 2 S3005 Algebra 1 Part 2 with modifications 3002 Algebra 1 Part 1 S3002 Algebra 1 Part 1 with modifications 3000 Algebra 1 3155 Geometry	4910 Honors Biology 1 4000 Biology 1 4900 Integrated Science S4900 Integrated Science with modifications

Full Credit Electives

World Language	Technology Ed	Language Arts	Music	Family & Consumer Sciences	Business, Computer, & Information Technology	Art
5210 Spanish 1 5010 French 1	8205 Honors Intro. Engineering Design (IED) 8220 Honors Robotics 8330 Graph Design 1 8390 Manu. & Construction 8260 Honors Civil Engineering Architecture 8400 TV Video Prod 1 8370 Power, Energy and Transportation 1	1055 Drama Full 1060 Journalism	7390 Music Theory 7310 Freshman Choir 7340 Concert Choir/ String Orchestra 7343 Select Choir/ Symphony Strings 7400 String Orchestra 7460 Symphonic Band 7470 Symphonic Band 2 7480 Wind Ensemble 7510 Guitar/Piano Lab 7530 Digital Recording 7550 Symphony Strings/ Symphony Orch.	8000 Child Development and Parenting 8020 FCS Major 8010 Intro Child Dev 8060 Independent Living 8040 Today's Foods 8050 Honors Nutrition: Fit for Life 8070 Fashion Design, Engineering and Construction <hr/> Mathematics <hr/> 3070 Computer Math Java	6000 Intro to Business 6130 Marketing for Sports, Ent. & Special Events 6010 Accounting 1 6110 Info Technology 1 6170 Finance & Investment 6070 Entrepreneurship & Innovation 6090 Criminal & Civil Law 6095 Cyber Forensics & Digital Law 6210 International Business 6270 Microsoft Certification Prep 6280 Marketing Fashion, Hospitality & Tourism	7000 Art Major 7140 Design & Illustration 7170 Drawing & Painting 7210 APP & Game Design 7250 Ceramics, Sculpture and Jewelry 7220 Photo/Digital Art 7230 Animation & Filmmaking
Half-credit Electives → →		1050 Drama ½ 1070 Myth & Folk 1090 Public Speaking 1085 Shakespeare	7500 Intro. To Music		6080 Social Networking for Careers 6220 Keyboarding 6230 Business SIM & APP Programming	7100 Introduction to Art 7175 Drawing & Painting 7255 Ceramics, Sculpture and Jewelry

- All students must carry a minimum of 6.5 Credits.
- Required Sophomore Courses: Language Arts, Social Studies, Math and Science and Health.
- Select 2 or 3 Electives (see below) with alternates.
 - Select 1 full credit course or 2 ½ credit courses for each elective and alternate.

Student's Last Name: _____ First Name _____ Guidance Counselor: _____

Period	Required Credits	Course Code (Number)	Course Name	Alternate Selection
1	Language Arts			None Required
2	Social Studies			None Required
3	Math			None Required
4	Science			None Required
5	Elective 1			
6	Elective 2			
7	Health		0160	None Required
8	Lunch		5500	None Required
	Elective 3 – Instead of lunch 7 th Major			

Grade 10 Overview of Course Offerings 2015/2016

CORE COURSES

Language Arts	Social Studies	Mathematics	Science
Select a Full Year Language Arts Course	Select a Full Year Social Studies Course	Select a Full Year Math Course	Select a Full Year Science Course
1000 AP Prep English 10 1010 Honors English 10 1020 English 10 S1020 English 10 with modifications 1040 Foundations English 10	2010 AP European History 2310 Honors Modern World History 2320 Modern World History S2320 Modern World History with modifications 2340 Foundations of Modern World History	3170 Honors Math 1 3010 Honors Algebra 2 3020 Algebra 2 3155 Geometry 3000 Algebra 1 3005 Algebra 1 Part 2 S3005 Algebra 1 Part 2 with modifications	4030 Honors Chemistry 1 4035 AE Honors Chemistry 1 4040 Chemistry 1 4000 Biology 1 S4000 Biology 1 with modifications 4010 Foundations of Biology 4080 Honors Human Anatomy & Physiology (Prerequisite see course description) 4075 AP Environmental Science (Prerequisite see course description)

ELECTIVES

World Language	Technology Ed	Language Arts	Music	Family & Consumer Sciences	Business, Computer, & Information Technology	Art
5210 Spanish 1 5220 Spanish 2 5225 Spanish 2/3 Honors 5010 French 1 5020 French 2 5025 French 2/3 Honors	8205 Honors Intro. Engineering Design (IED) 8215 Honors Principles of Engineering 8350 Honors Computer Science & Software Engineering 8300 Honors Digital Electronics 8220 Honors Robotics 8330 Graph Design 1 8310 Graph Design 2 8390 Manu. & Construction 8380 Advanced Manu and Construction 8250 Honors Architectural & Interior Design 2 8260 Honors Civil Engineering Architecture 8400 TV Video Prod 1 8410 TV Video Prod 2 8370 Power, Energy and Transportation 1 8360 Power, Energy and Transportation 2	1055 Drama Full 1060 Journalism 5560 Newspaper 5710 Yearbook	7370 AP Music Theory 7390 Music Theory 7320 Select Choir 7300 Concert Choir 7340 Concert Choir/ String Orchestra 7343 Select Choir/ Symphony Strings 7400 String Orchestra 7460 Symphonic Band 7470 Symphonic Band 2 7480 Wind Ensemble 7510 Guitar/Piano Lab 1 7515 Guitar/Piano Lab 2 7530 Digital Recording 7550 Symphony Strings/ Symphony Orch.	8020 FCS Major 8010 Intro Child Dev 8000 Child Dev & Parent 8060 Independent Living 8040 Today's Foods 8050 Honors Nutrition: Fit for Life 8070 Fashion Design, Engineering and Construction	6000 Intro to Business 6130 Marketing for Sports, Ent. & Special Events 6140 Management for Sports and Entertainment 6010 Accounting 1 6040 Accounting 2 6110 Info Technology 1 6120 Inf. Technology 2 6170 Finance & Investment 6070 Entrepreneurship & Innovation 6090 Criminal & Civil Law 6095 Cyber Forensics & Digital Law 6210 International Business 6270 Microsoft Certification Prep 6280 Marketing Fashion, Hospitality & Tourism	7000 Art Major 7010 Advanced Art 1 7140 Design & Illustration 7170 Drawing & Painting 7210 APP & Game Design 7250 Ceramics, Sculpture and Jewelry 7260 Ceramics, Sculpture and Jewelry 2 7220 Photo/Digital Art 7230 Animation and Filmmaking 7200 Advanced Photo
<div>Half-credit Electives → →</div>		1050 Drama ½ 1070 Myth & Folk 1090 Public Speak. 1085 Shakespeare	7500 Intro. To Music		6080 Social Networking for Careers 6220 Keyboarding 6230 Business SIM & APP Programming	7100 Introduction to Art 7175 Drawing & Painting 7255 Ceramics, Sculpture and Jewelry

- All students must carry a minimum of 6.5 Credits.
- Required Junior Courses: Language Arts, Social Studies, Math and Science and PE.
- Select 2 or 3 Electives (see below) with alternates.
 - Select 1 full credit course or 2 ½ credit courses for each elective and alternate.

Student's Last Name: _____ First Name _____ Guidance Counselor: _____

Period	Required Credits	Course Code (Number)	Course Name	Alternate Selection
1	Language Arts			None Required
2	Social Studies			None Required
3	Math			None Required
4	Science			None Required
5	Elective 1			
6	Elective 2			
7	Physical Ed		0020	None Required
8	Lunch		5500	None Required
	Elective 3 - Instead of lunch (7 th Major)			

Grade 11 Overview of Course Offerings

CORE COURSES

Language Arts	Social Studies	Mathematics	Science
Select a Full Year Language Arts Course 1100 AP English 11 Language & Composition 1110 Honors English 11 1120 English 11 S1120 English 11 with modifications 1150 Foundations English 11	Select a Full Year Social Studies Course 2000 AP United States History 2001 AE AP United States History 2210 Honors Contemporary United States and World History 2211 AE Honors Contemporary United States and World History 2220 Contemporary United States and World History S220 Contemporary United States and World History with modifications 2240 Foundations of Contemporary United States and World History	Select a Full Year Math Course 3190 Honors Math 2 3260 Honors Precalculus 3250 Precalculus 3020 Algebra 2 3180 AP Statistics 3025 Algebra 3 3270 Statistics 3155 Geometry	Select a Full Year Science Course 4025 AP Biology 4050 Honors Chemistry 2 4120 Honors Physics 1 4130 Physics 1 4110 Foundations Physics 4140 AP Chemistry 4040 Chemistry 1 4090 Foundations of Chemistry 4020 Honors Biology 2 4060 Earth Space Science S4060 Earth Space Science with modifications 4070 Environmental Studies 4080 Honors Human Anatomy & Physiology 4075 AP Environmental Studies

ELECTIVES

World Language	Technology Ed	Physical Education	Music	Family & Consumer Sciences	Business, Computer, & Information Technology	Art
5210 Spanish 1 5220 Spanish 2 5230 Spanish 3 5225 Spanish 2/3 Honors 5240 Spanish 4 Honors 5010 French 1 5020 French 2 5030 French 3 5025 French 2/3 Honors 5040 French 4 Honors	8205 Honors Intro. Engineering Design (IED) 8215 Honors Principles of Engineering 8350 Honors Computer Science & Software Engineering 8300 Honors Digital Electronics 8220 Honors Robotics 8330 Graph Design 1 8310 Graph Design 2 8390 Manu. & Construction 8380 Advanced Manu and Construction 8250 Honors Architectural & Interior Design 2 8260 Honors Civil Engineering Architecture 8400 TV/Video Prod 1 8410 TV/Video Prod 2 8370 Power, Energy and Transportation 1 8360 Power, Energy and Transportation 2	0010 Exercise Science & Leadership Training	7370 AP Music Theory 7390 Music Theory 7320 Select Choir 7300 Concert Choir 7340 Concert Choir/ String Orchestra 7343 Select Choir/ Symphony Strings 7400 String Orchestra 7460 Symphonic Band 7470 Symphonic Band 2 7480 Wind Ensemble 7510 Guitar/Piano Lab 1 7515 Guitar/Piano Lab 2 7530 Digital Recording 7550 Symphony Strings/ Symphony Orch.	8020 FCS Major 8010 Intro Child Dev 8000 Child Dev & Parent 8060 Independent Living 8040 Today's Foods 8050 Honors Nutrition: Fit for Life 8070 Fashion Design, Engineering and Construction	6130 Marketing for Sports, Ent. & Special Events 6140 Management for Sports and Entertainment 6010 Accounting 1 6040 Accounting 2 6050 Accounting 3 Honors 6110 Info Technology 1 6120 Info. Technology 2 6170 Finance & Investment 6070 Entrepreneurship & Innovation 6090 Criminal & Civil Law 6095 Cyber Forensics & Digital Law 6210 International Business 6270 Microsoft Certification Prep 6280 Marketing Fashion, Hospitality & Tourism 6125 Honors Microeconomics 6100 Business Math	7020 Advanced Art 2 7140 Design & Illustration 7170 Drawing & Painting 7210 APP & Game Design 7250 Ceramics, Sculpture and Jewelry 7260 Ceramics, Sculpture and Jewelry 2 7220 Photo/Digital Art 7230 Animation and Filmmaking 7200 Advanced Photo
<div>Half-credit Electives → →</div>		Language Arts 1055 Drama Full 1060 Journalism 5560 Newspaper 5710 Yearbook		Mathematics 3270 Statistics 3070 Computer Math JAVA 3090 AP Computer Math JAVA	6080 Social Networking Careers 6220 Keyboarding 6230 Business SIM & APP Programming	7100 Introduction to Art 7175 Drawing & Painting 7255 Ceramics, Sculpture and Jewelry
		1050 Drama ½ 1070 Myth & Folk 1090 Public Speaking 1085 Shakespeare	7500 Intro. To Music			

- All students must carry a minimum 6.5 Credits. – Exceptions: Senior Privilege and Co-Op
- Required Senior Courses: Language Arts, Social Studies and PE.
- We **highly recommend** that you take Math and Science as most Colleges require 4 years of each of these.
 - You must pass a minimum of 3 years of Math and Science in order to graduate.

Student's Last Name: _____ First Name _____ Guidance Counselor: _____

Period	Required Credits	Course Code (Number)	Course Name	Alternate Selection
1	Language Arts			None Required
2	Social Studies			
3	Elective 1			
4	Elective 2			
5	Elective 3			
6	Elective 4			
7	Physical Ed		0020	None Required
8	Lunch		5500	None Required
	Elective 3 - Instead of lunch (7 th Major)			

Grade 12 Overview of Course Offerings

CORE COURSES

Language Arts Select a Full Year Course	Social Studies Select a Full Year Course	Mathematics Select a Full Year Course	Science Select a Full Year Course
1200 AP English 12 1205 AP AE English 12 1210 Honors English 12 1215 AE Honors English 12 1220 English 12 S1220 English 12 with modifications 1250 Foundations English 12	2010 AP European History 2000 AP United State History 2005 AP American Government & Politics 2015 AP Psychology 2020 AP Human Geography Or select a Block of Semester Courses along with an Alternate Block. 2415 Honors Civics & Economics/Honors Psychology 2455 Honors Civics & Economics/Honors Sociology 2425 Civics & Economics/Psychology S2425 Civics & Economics/Psychology with modifications 2465 Civics & Economics/Sociology S2465 Civics & Economics/Sociology with modifications 2470 Civics & Economics/Govt. and Current Issues 2480 Civics & Economics/Women Studies	3200 AP Calculus 3180 AP Statistics 3210 Honors Calculus 3215 Calculus 3250 Precalculus 3025 Algebra 3 3020 Algebra 2 3270 Statistics	4155 AP Physics 4075 AP Environmental Studies 4025 AP Biology 4140 AP Chemistry 4150 Honors Physics 2 4050 Honors Chemistry 2 4020 Honors Biology 2 4130 Physics 1 4110 Foundations of Physics 4070 Environmental Studies 4060 Earth & Space Science S4060 Earth & Space Science with modifications 4080 Honors Human Anatomy & Physiology

ELECTIVES

World Language	Technology Ed	Physical Education	Music	Family & Consumer Sciences	Business, Computer, & Information Technology	Art
5210 Spanish 1 5220 Spanish 2 5230 Spanish 3 5225 Spanish2/3 Honors 5240 Spanish 4 Honors 5250 Spanish 5 Honors 5260 AP Spanish 5 5010 French 1 5020 French 2 5030 French 3 5025 French 2/3 Honors 5040 French 4 Honors 5050 French 5 Honors 5060 AP French 5	8205 Honors Intro. Engineering Design (IED) 8215 Honors Principles of Engineering 8350 Honors Computer Science & Software Engineering 8300 Honors Digital Electronics 8220 Honors Robotics 8330 Graph Design 1 8310 Graph Design 2 8390 Manu. & Construction 8380 Advanced Manu and Construction 8250 Honors Architectural & Interior Design 2 8260 Honors Civil Engineering Architecture 8400 TV Video Prod 1 8410 TV Video Prod 2 8370 Power, Energy and Transportation 1 8360 Power, Energy and Transportation 2	0010 Exercise Science & Leadership Training Language Arts 1055 Drama Full 1060 Journalism 5560 Newspaper 5710 Yearbook	7370 AP Music Theory 7390 Music Theory 7320 Select Choir 7300 Concert Choir 7340 Concert Choir/ String Orchestra 7343 Select Choir/ Symphony Strings 7400 String Orchestra 7460 Symphonic Band 7470 Symphonic Band 2 7480 Wind Ensemble 7510 Guitar/Piano Lab 1 7515 Guitar/Piano Lab 2 7530 Digital Recording 7550 Symphony Strings/ Symphony Orch.	8020 FCS Major 8010 Intro Child Dev 8000 Child Dev & Parent 8060 Independent Living 8040 Today's Foods 8050 Honors Nutrition: Fit for Life 8070 Fashion Design, Engineering and Construction Mathematics 3270 Statistics 3070 Computer Math JAVA 3090 AP Computer Math JAVA	6130 Marketing for Sports, Ent. & Special Events 6140 Management for Sports and Entertainment 6010 Accounting 1 6040 Accounting 2 6050 Accounting 3 Honors 6110 Info Technology 1 6120 Info. Technology 2 6170 Finance & Investment 6070 Entrepreneurship & Innovation 6090 Criminal & Civil Law 6095 Cyber Forensics & Digital Law 6210 International Business 6270 Microsoft Certification Prep 6280 Marketing Fashion, Hospitality & Tourism 6125 Honors Microeconomics 6225 Honors Macroeconomics 6100 Business Math 5312 Co-Op Education 6080 Social Networking Careers 6220 Keyboarding 6230 Business SIM & APP Programming	7030 Advanced Art 3 7140 Design & Illustration 7170 Drawing & Painting 7210 APP & Game Design 7250 Ceramics, Sculpture and Jewelry 7260 Ceramics, Sculpture and Jewelry 2 7220 Photo/Digital Art 7230 Animation and Filmmaking 7200 Advanced Photo 7100 Introduction to Art 7175 Drawing & Painting 7255 Ceramics, Sculpture & Jewelry
<div>Half-credit Electives → →</div>		1050 Drama ½ 1070 Myth & Folk 1090 Public Speak. 1085 Shakespeare	7500 Intro. To Music			

Contact Information

Dr. Robert McGee - High School Principal.....	215-809-6100
Mrs. Lisa Pennington - Assistant Principal - Scheduling	215-809-6105
High School Guidance Department	215-809-6101
Carl Sandburg Middle School Guidance Department	215-809-6225
Maple Point Middle School Guidance Department	215-809-7234
Poquessing Middle School Guidance Department	215-809-6215
Buck County Technical High School	215-949-1700
District/School Website	www.neshaminy.k12.pa.us
Bucks County Technical High School	www.bcths.com
National Association for College Admission Counselors	www.nacacnet.org
NCAA Eligibility Requirements	www.ncaaclearinghouse.net



Board of School Directors

Mr. Scott Congdon, President
Ms. Irene Boyle , Vice President

Mr. John Allen	Mr. Stephen Pirritano
Mrs. Susan Cummings	Mr. Ron Rudy
Mr. Mike Morris	Mr. Mark Shubin
Mr. Anthony Sposato	

District Cabinet

Superintendent.....Mr. Copeland
Asst. to the Superintendent for Curriculum Instruction and Assessment Dr. Gloria Hancock
Asst. to the Superintendent for Administration Mr. Don Harm
Business AdministratorMs. Barbara Markowitz

High School Administration

Principal Dr. Robert McGee.
Assistant Principal – Scheduling and Academic Records Mrs. Lisa Pennington
Assistant Principal – Athletic and Co-Curricular Director Mr. Thomas Magdelinskas
Assistant Principal – Grade Level 09 Office Ms. Lynn Knotts
Assistant Principal – Grade Level 10 Office Mr. Robert Mueller
Assistant Principal – Grade Level 11 Office Mr. Colin Trickel
Assistant Principal – Grade Level 12 Office Mr. William Ritchey

Pupil Services & Guidance

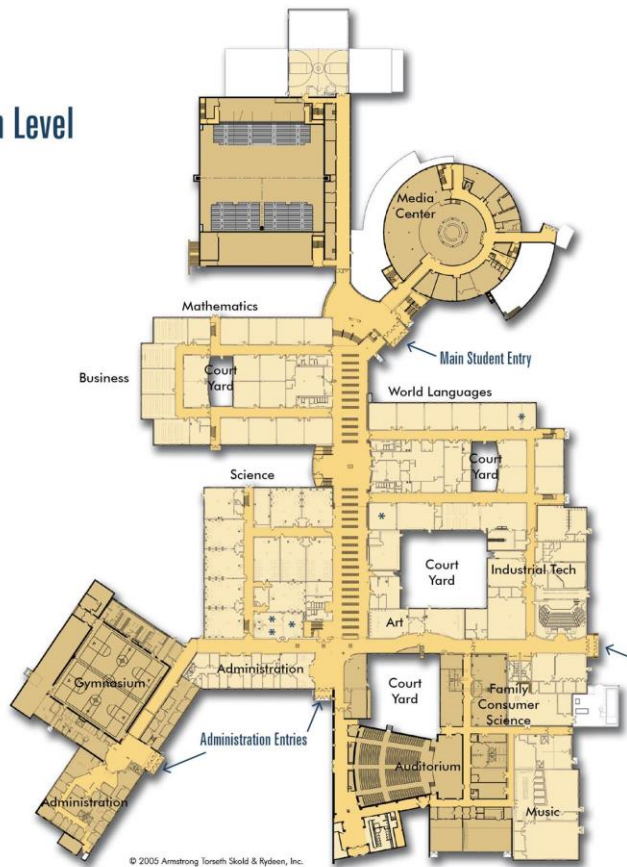
Director of Pupil Services Mr. Anthony Devlin
High School Guidance Department Chairperson..... Mrs. Casey Rodgers
Guidance Counselor Ms. Patience Burton
Guidance Counselor Mrs. Jennifer Coe
Guidance Counselor Mrs. Susan Fennecken
Guidance Counselor Mrs. Kimberly Gibbons
Guidance Counselor Mrs. Traci Hindle
Guidance Counselor Mrs. Heather Krajcer
Guidance Counselor Mrs. Jill Ortman
Guidance Counselor/Graduation Project Mr. Erik Styer
Guidance Counselor Mrs. Heidi Wilson

High School Department Chairpersons

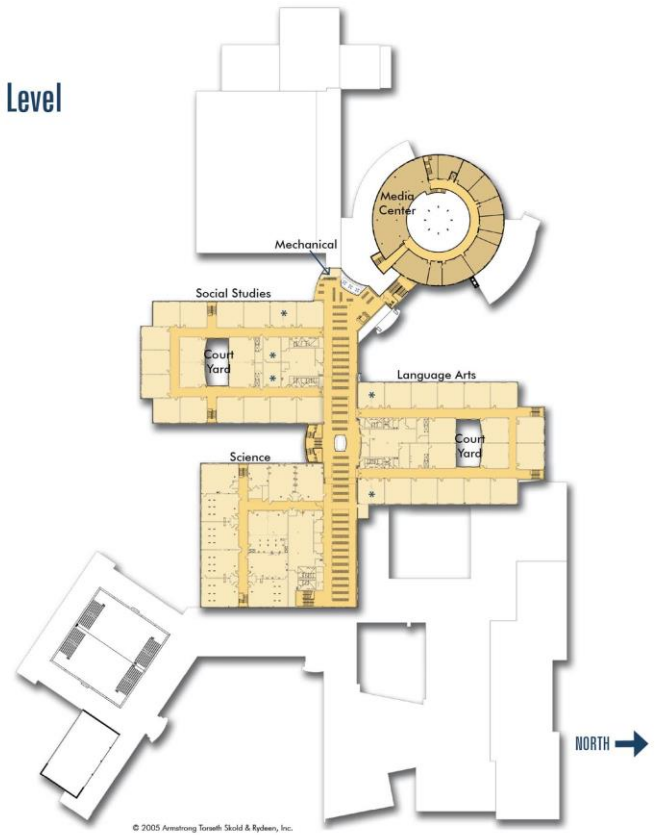
Business, Computer, and Information Technology Department Mrs. Janet Dougherty
English Department Mr. Robert Boffa
Family and Consumer Science Department Mrs. Kelly Macauley
Fine Arts Department Mr. Syd White
Health and Physical Education Department Mrs. Amy Geruc
Learning Support Department Mr. Tadd Fox
Mathematics Department..... Mr. Dave Stout
Science Department..... Mr. Matthew Thompson
Social Studies Department Mr. Josh Stoner
World Language Department Mrs. Cara DeLorenzo- Palka/Mrs. Diana Jennings

Neshaminy High School 2015/2016

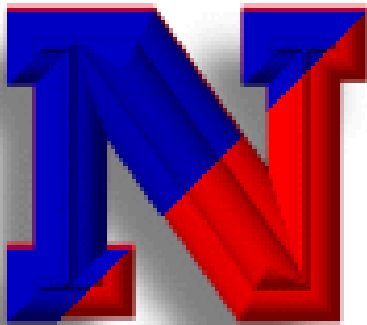
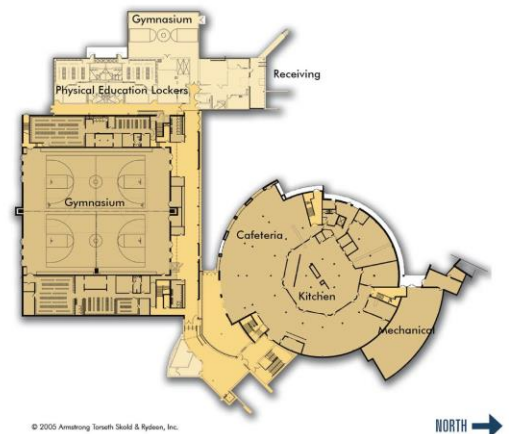
Main Level



Upper Level



Lower Level



"We Build Futures"