



"We Build Futures"

Neshaminy School District

Langhorne, PA

Neshaminy High School



Course of Study
2021 -2022



"Making Education First, and Making it Last"

Neshaminy School District, Langhorne, PA



Blue Ribbon National Schools of Excellence

Neshaminy High School History

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

The Neshaminy community builds futures by empowering each child to become a productive citizen and a lifelong learner.

District Beliefs

The Neshaminy community believes that . . .

Children are the future.

All people can learn.

- People learn in different ways and at different rates.
- Achievement is realized through challenge.
- Trust promotes creative problem solving.

All people have worth.

- Laughter, joy, and hope are essential for a quality life.
- Success builds self-esteem.
- Valuing diversity strengthens our society.
- People have a responsibility to themselves and others.
- Family is the cornerstone of society.

A quality education is a right.

- Excellence in education requires support, sacrifice, & involvement from the total community.
- All people have the right to a safe and healthy learning environment.

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 2020-2021 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

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

- 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.

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. 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

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 and are not guaranteed.
- 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.**
- **A student withdrawing from a class after the established deadline will show a “W” on their final transcript for the class.**
- 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

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.

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

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

Athletic Eligibility

NCAA Eligibility Requirements

Visit [www. Ncaa.org](http://www.Ncaa.org) for more information

Division I Schools - 16 Core-course Rule

Eligibility:

- **10 of the 16 core courses must be complete before the 7th semester (senior year) of HS**
- Graduate HS
- Core- Course GPA of at least 2.3
- Earn ACT/SAT scores according to the Divisions 1 scale.
- **16 Core- Course Rule:**
 - 4 years of English
 - 3 years of Math (Algebra 1 or higher)
 - 2 years of Natural/ Physical Science
 - 1 year of additional English, Math, or Science
 - 2 years of Social Studies
 - 4 years of additional courses (any area above and World Language)

Division II Schools - 16 Core-course Rule

Eligibility:

- Complete 16 Core-Courses
- Graduate HS
- Core-Course GPA of at least 2.2
- Earn SAT scores according to the Division 2 scale
- **16 Core-course Rule:**
 - 3 years of English
 - 2 years of Math (Algebra 1 or higher)
 - 2 years of Natural Science/Physical Science
 - 3 years of additional English, Math, or Science
 - 2 years of Social Studies
 - 4 years of additional courses (any area above and World Language)

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
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. If the student achieves a high score on the National Exam, 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. It is recommended that students taking this course take the Advanced Placement (AP) National Exam at the end of the course.

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. If the student achieves a high enough score on the National Exam, 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. It is recommended that students taking this course take the Advanced Placement (AP) National Exam at the end of the course.

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 #1220

English 12

Level: Non-weighted
Credits: 1.0

COURSE #S1220 with modifications

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

Level: Non-weighted
Credits: 1.0

Grade Level: 9-12

Resolvable around Lab: Yes

Journalism and digital media is a communications course focused on reporting news, writing editorial stories, shooting photos, editing copy, working with multimedia tools, and learning the principles of professional journalism. By enrolling in the course, students become staff writers for the award-winning Playwickian newspaper and website with the goal of publishing their work. This course seeks to improve communication and writing skills for the 21st century student by incorporating all the tools, trends and technology of journalism in the digital age.

Language Arts Department

Full Credit Language Arts Elective Courses Continued

COURSE #1065

Grade Level: 9-12

Resolvable around Lab: Yes

Creative Writing

Level: Non-weighted

Credits: 1.0

This course focuses on the craft of creative writing, exploring the types, techniques and theories writers use to engage audiences and produce art. Through supportive workshops and contemporary models, students are introduced to the creative process, discovering the methods of flash fiction, short story, novel, poetry (various modes), screenwriting, writing for children, and memoir. In particular, students will craft work reflecting a variety of genres, both new and old, from YA (Young Adult) and Dystopian to Realism and Abstract. In the course, students will participate in community writing exercises, strengthening their ability to edit and revise, in an effort to help each author achieve his/her own specific goals—as well as the ultimate goal—to publish. Writing will be assessed through rubrics, conferences, and portfolios on an individual basis.

COURSE #1055

Grade Level: 9-12

Resolvable around Lab: Yes

Drama

Level: Non-weighted

Credits: 1.0

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

Grade Level: 10,11,12

Resolvable around Lab: Yes

Prerequisite: Journalism/Instructor Recommendation

Newspaper

Level: Non-weighted

Credits: 1.0

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.

Half Credit Language Arts Elective Courses

COURSE #1090

Grade Level: 9-12

Resolvable around Lab: No

Public Speaking

Level: Non-weighted

Credits: 0.5 Even/Odd

The course explores multiple modes of speech, delving into various techniques for effective communication in a supportive environment. Public Speaking builds poise and confidence in social situations, allowing students to interact with live audiences. Public Speaking, a course required by most universities, prepares students for academic success and future careers.

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 World 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 Psychology 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 #2011

Grade Level: 10

NCAA Core: Yes

Additional: AP Test Fee

Advanced Placement (AP) World History

Level: AP

Credits: 1.0

AP World History is designed to be the equivalent of a two-semester introductory college or university world history course. The course focuses on developing students' understanding of world history from approximately 8000 B.C.E. to the present. The course has students investigate the content of world history for significant events, individuals, developments, and processes in six historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past.

The course includes extensive reading assignments from a college level text, in-depth essay writing assignments, as well as college-level summative exams. Students should have teacher recommendation to take this course. The entire course is designed with the expectation of students taking the AP national exam. Depending on the secondary institution and the student's score, up to six college credits can be earned. It is recommended that students taking this course take the Advanced Placement (AP) National Exam at the end of the course.

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.

Social Studies Department

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 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

Grade Level: 11,12

NCAA Core: Yes

Additional: AP Test Fee

Advanced Placement (AP) United States 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.

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 and writing is intense, extensive, involving primary and secondary sources. It is recommended that students taking this course take the Advanced Placement (AP) National Exam at the end of the course.

COURSE #2001

Grade Level: 11

NCAA Core: Yes

Prerequisite: Gifted Program Placement

Additional: AP Test Fee

Academic Enrichment (AE) Advanced Placement (AP) United States History

Level: AP

Credits: 1.0

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. It is recommended that students taking this course take the Advanced Placement (AP) National Exam at the end of the course.

COURSE #2210

Grade Level: 11

NCAA Core: Yes

Honors Contemporary United States and World History

Level: Honors

Credits: 1.0

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.

Social Studies Department

COURSE #2211

Grade Level: 11

NCAA Core: Yes

Prerequisite: Gift Program Placement

Academic Enrichment (AE) Honors Contemporary United States & World History

Level: Honors

Credits: 1.0

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.

COURSE #2220

COURSE #S2220 with modifications

Grade Level: 11

NCAA Core: Yes

Contemporary United States and World History

Level: Non-weighted

Credits: 1.0

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

Grade Level: 11

NCAA Core: No

Foundations of Contemporary United States and World History

Level: Non-weighted

Credits: 1.0

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 #2000

Grade Level: 11, 12

NCAA Core: Yes

Additional: AP Test Fee

Advanced Placement (AP) United States History

Level: AP

Credits: 1.0

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 and writing is extensive, involving primary and secondary sources. It is recommended that students taking this course take the Advanced Placement (AP) National Exam at the end of the course.

COURSE #2005

Grade Level: 12

NCAA Core: Yes

Additional: AP Test Fee

Advanced Placement (AP) American Government & Politics

Level: AP

Credits: 1.0

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. The course requires students to have extensive and intensive reading & writing skills. It is recommended that students taking this course take the Advanced Placement (AP) National Exam at the end of the course.

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. The course requires students to have extensive and intense reading and writing skills. The Civics and Economics requirement will be incorporated in this class. It is recommended that students taking this course take the Advanced Placement (AP) National Exam at the end of the course.

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. It is recommended that students taking this course take the Advanced Placement (AP) National Exam at the end of the course.

Grade 12 Semester Social Studies Courses

**Semester Social Studies Courses are scheduled in pairs.
Each pairing will include Civics and Economics and another course.**

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.

Social Studies Department

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.

COURSE #2090

COURSE #S2090 with modifications

Grade Level: 12
NCAA Core: Yes

Psychology

Level: Non-weighted
Credits: 0.5 Semester

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 #2120

Grade Level: 12
NCAA Core: Yes

Women Studies

Level: Non-weighted
Credits: 0.5 Semester

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

Grade Level: 12
NCAA Core: Yes

Honors Civics and Economics (Senior Requirement)

Level: Honors
Credits: 0.5 Semester

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

COURSE #S2060 with modifications

Grade Level: 12
NCAA Core: Yes

Civics and Economics (Senior Requirement)

Level: Non-weighted
Credits: 0.5 Semester

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, AP Statistics and AP Computer Science A (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 Math 1 Honors Algebra 2 Algebra 2	Honors Math 2 Honors Precalculus Precalculus AP Computer Science A	AP Calculus AB AP Statistics AP Computer Science A Honors Calculus Calculus Precalculus Statistics	AP Calculus AB AP Calculus BC AP Statistics AP Computer Science A Statistics Honors Calculus 2 Precalculus
Honors Geometry	AP Computer Science A Honors Math 1 Honors Algebra 2	AP Computer Science A Honors Math 2 Honors Precalculus Statistics	AP Calculus AB Statistics Honors Calculus
Geometry	Algebra 2	Precalculus Algebra 3 Statistics	Calculus Precalculus Statistics
Algebra 1	Geometry	Algebra 2	Precalculus Algebra 3 Statistics
Algebra 1 Part 1	Algebra 1	Geometry	Algebra 2

Grade 9 and 10 Mathematics Courses

COURSE #3160

Grade Level: 9

NCAA Core: Yes

Prerequisite: 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 relationship among points, lines, angles, triangles, polygons, & circles. Organization of information using inductive/deductive reasoning to draw logical conclusions, advanced algebraic problem-solving skills, and formal deductive proofs will be stressed.

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 Geometry course fosters an understanding of the special properties of two and three-dimensional figures and emphasizes the relationship among points, lines, angles, triangles, polygons, & circles. Organization of information using inductive/deductive reasoning to draw logical conclusions and algebraic problem-solving skills will be stressed.

Mathematics Department

COURSE #3190

Honors Math 2

Level: Honors

Grade Level: 10, 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.

COURSE #3010

Honors Algebra 2

Level: Honors

Grade Level: 9,10

Credits: 1.0

NCAA Core: Yes

Prerequisite: 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 #3250

Precalculus

Level: Non-weighted

Grade Level: 10, 11, 12

Credits: 1.0

NCAA Core: Yes

Prerequisite: Algebra 2; Graphing Calculator Recommended

Precalculus is a rigorous course designed to prepare students for the study of Calculus. It consists of an extension of the concepts covered in Algebra 2, as well as an introduction to Trigonometry. Polynomial, exponential, logarithmic, and trigonometric functions are studied in this course. Trigonometric topics include the solution of trigonometric equations, identity manipulations, and transformation graphing, including work with amplitude, period, and phase shift.

COURSE #3020

Algebra 2

Level: Non-weighted

Grade Level: 9, 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.

COURSE #3170

Honors Math 1

Level: Honors

Grade Level: 9,10

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 #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.

Mathematics Department

COURSE #3002

Algebra 1 Part 1

Level: Non-weighted

COURSE #S3002 with modifications

Credits: 1.0

Grade Level: 9

NCAA Core: Yes (.5 credit)

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.

Grade 11 and 12 Mathematics Courses

COURSE #3180

Advanced Placement (AP) Statistics

Level: AP

Grade Level: 11, 12

Credits: 1.0

NCAA Core: Yes

Prerequisite: Precalculus; Graphing Calculator Required

Additional: AP Test Fee

The AP Statistics course introduces students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. The curriculum covers four broad areas: (1) exploring data - describing patterns and departures from patterns, (2) sampling and experimentation- planning and conducting a study, (3) anticipating patterns- exploring random phenomena using probability and simulation, (4) statistical inference- estimating population parameters and testing hypotheses. The course syllabus follows the recommendations of the College Board and is intended to prepare students for the Advanced Placement (AP) National Exam in May.

COURSE #3200

Advanced Placement (AP) Calculus AB

Level: AP

Grade Level: 11, 12

Credits: 1.0

NCAA Core: Yes

Prerequisite: Honors Precalculus, 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, including differential and integral calculus, at a fast and intense pace. The course syllabus follows the recommendations of the College Board and is intended to prepare students for the Advanced Placement (AP) National Exam in May.

COURSE #3205

Advanced Placement (AP) Calculus BC

Level: AP

Grade Level: 12

Credits: 1.0

NCAA Core: Yes

Prerequisite: AP Calculus AB or Honors Calculus with teacher recommendation - Graphing Calculator Required

Additional: AP Test Fee

This accelerated course reviews the concepts of calculus, emphasizing and extending introductory topics in differentiation and integration, at a fast and intense pace. The course outline completes the recommended topics described by the College Board and is intended to prepare students for the Advanced Placement (AP) National Exam in May.

COURSE #3090

Advanced Placement (AP) Computer Science A

Level: AP

Grade Level: 10, 11, 12

Credits: 1.0

NCAA Core: Yes

Prerequisite: Algebra 2

Additional: AP Test Fee

This course is equivalent to a first-semester college course in Computer Science using the Java language. Students will learn problem solving by learning and applying a programming technique known as Object-Oriented Programming (OOP). The major points of emphasis are programming design, algorithm development, classes and methods, and one-and two-dimensional arrays. It is recommended that students taking this course take the Advanced Placement examination in computer science at the end of this course.

Mathematics Department

COURSE # 3220

Honors Calculus 2

Level: Honors

Grade Level: 12

Credits: 1.0

NCAA Core: Yes

Prerequisite: Honors Calculus

Calculus 2 is a continuation of Calculus. Students will further explore the concepts of derivatives, limits, integrals, and their applications. Topics will include transcendental functions, techniques and applications of integration and improper integrals. Infinite series and polar coordinate will also be studied.

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.

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 #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 designed to reinforce Algebra concepts and introduce students to the study of trigonometry, in preparation for Precalculus. It includes the study of probability, statistics, matrices, logarithms, conic sections, relations, functions, and trigonometry. This course is not for students who have passed Precalculus or Calculus.

COURSE #3270

Statistics

Level: Non-weighted

Grade Level: 11, 12

Credits: 1.0

NCAA Core: Yes

Prerequisite: Algebra 2; Graphing Calculator Recommended

The purpose of this course is to provide students with a basic understanding of statistics through a deeper investigation into the role statistics plays in the real-world. The course addresses: fundamental uses and misuses of statistics, exploratory data analysis, probability, uncertainty and randomness, one- and two- sample inference, one-way analysis of variance, regression and correlation, interpretation and communication of results. Use of the TI-84 Plus graphing calculator is integrated throughout the course.

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

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 & Physiology Forensics	Honors Human Anatomy & Physiology AP Biology Honors Biology 2 AP Chemistry Honors Chemistry 2 AP Environmental Studies Earth and Space Environmental Studies Forensic Science	
Biology 1	Chemistry 1	Physics 1	
Integrated Science 	Biology 1	Chemistry 1 Forensic Science	Physics 1 Forensic Science
		Earth and Space	Environmental Studies
	Foundations of Biology	Foundations of Chemistry Forensic Science	Foundations of Physics Forensic Science
		Earth and Space	Environmental Studies

Science Department

Grade 9 and 10 Science Courses

COURSE #4910**Honors Biology 1****Level: Honors**

Grade Level: 9, 10

Credits: 1.0

NCAA Core: Yes

Lab: 1 Day

Prerequisite: Concurrent Honors Geometry or a Higher Level Math

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**Biology 1****Level: Non-weighted****COURSE #S4000** with modifications

Credits: 1.0

Grade Level: 9, 10

Lab: 1 Day

NCAA Core: Yes

Prerequisite: Concurrent with Geometry and have current Science Teacher Recommendation

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**Integrated Science****Level: Non-weighted****COURSE #S4900** with modifications

Credits: 1.0

Grade Level: 9

Lab: None

NCAA Core: Yes

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.

COURSE #4075**Advanced Placement (AP) Environmental Studies****Level: AP**

Grade Level: 10, 11, 12

Credits: 1.0

NCAA Core: Yes

Lab: 3 Days

Additional: AP Test Fee

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. It is recommended that students taking this course take the Advanced Placement (AP) National Exam at the end of the course.

Science Department

COURSE #4080

Honors Human Anatomy & Physiology

Level: Honors

Grade Level: 10, 11, 12

Credits: 1.0

NCAA Core: Yes

Lab: 1 Day

Prerequisite: Biology I or Honors Biology I

Concurrent: Chemistry I

10th Grade – Current Science Teacher Recommendation Required

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

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. This lab course meets 7 periods in a 6-day rotation and requires the completion of lab reports.

COURSE #4030

Honors Chemistry 1

Level: Honors

Grade Level: 10

Credits: 1.0

NCAA Core: Yes

Lab: 1 Day

Prerequisite: Algebra I

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

Credits: 1.0

NCAA Core: Yes

Lab: 1 Day

Prerequisite: Algebra I and; Gifted Program Placement

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

Credits: 1.0

NCAA Core: Yes

Lab: 1 Day

Prerequisite: Biology; Algebra I

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

Credits: 1.0

NCAA Core: No

Lab: 1 Day

Prerequisite: Integrated Science

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 and 12 Science Courses

COURSE #4025

Advanced Placement (AP) Biology

Level: AP

Grade Level: 11, 12

NCAA Core: Yes

Prerequisite: Concurrent Physics

Additional: AP Exam Fee

Credits: 1.0

Lab: 3 Days

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. It is recommended that students taking this course take the Advanced Placement (AP) National Exam at the end of the course.

COURSE #4140

Advanced Placement (AP) Chemistry

Level: AP

Grade Level: 11, 12

NCAA Core: Yes

Prerequisite: Concurrent Physics I

Additional: AP Exam Fee

Credits: 1.0

Lab: 3 Days

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 several main ideas: Atomic Structure and Properties, Bonding & Intermolecular Forces, Chemical Reactions, Kinetics, Thermodynamic, Equilibrium, and Acids and Bases. Students will be able to coordinate knowledge, reasoning skills, and evidence to explain and predict natural phenomena.

It is strongly suggested that only students that have earned a B or better in both Honors Chemistry I and Algebra 2 take the class. Students must have exceptional analytical and mathematical thinking skills to be successful in this rigorous course. The class will meet 9 periods in a six-day rotation. It is recommended that students taking this course take the advanced Placement (AP) National Exam at the end of the course.

COURSE #4020

Honors Biology 2

Level: Honors

Grade Level: 11,12

NCAA Core: Yes

Prerequisite: Concurrent: Physics

Credits: 1.0

Lab: 1 Day

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

COURSE #4120

Honors Physics 1

Level: Honors

Grade Level: 11

NCAA Core: Yes

Prerequisite: Honors Chemistry

Concurrent: Honors Precalculus or Honors Math 2

Credits: 1.0

Lab: 1 Day

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.

Science Department

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.

COURSE #4090

Foundations of Chemistry

Level: Non-weighted

Grade Level: 11

Credits: 1.0

NCAA Core: No

Lab: 1 Day

Prerequisite: Any Biology Course

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 lab course meets 7 periods in a 6-day rotation and requires the completion of lab reports.

COURSE #4070

Environmental Studies

Level: Non-weighted

Grade Level: 11, 12

Credits: 1.0

NCAA Core: Yes

Lab: None

Prerequisite: Any Biology Course

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

Earth & Space Science

Level: Non-weighted

COURSE #S4060 with modifications

Credits: 1.0

Grade Level: 11, 12

Lab: None

NCAA Core: Yes

Prerequisite: Any Biology Course

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.

COURSE #4200

Forensic Science

Level: Non-weighted

Grade Level: 10, 11, 12

Credit: 1.0

NCAA Core: Yes

Lab: No

Prerequisite: Biology; Geometry

Concurrent: Chemistry and Algebra 2

Forensic Science is the application of science for solving crimes. Forensics has become a comprehensive subject incorporating Biology, Chemistry, Physics, Entomology, Earth Science, Anatomy and Physiology as well as other aspects of Science. Students will apply their knowledge to solve problems using critical thinking. Data collection and analysis is the central tenet of this course. Major topics include processing a crime scene, collecting and preserving evidence, identifying types of physical evidence, organic and inorganic analysis of evidence, hair, fibers, and paint, toxicology, arson and explosion investigations, serology, DNA, fingerprints, firearms, and document analysis. These tools will be used to solve fictional crimes with fictional crime scenes.

Science Department

COURSE #4155

Grade Level: 12
 NCAA Core: Yes
 Prerequisite: Honors Physics;
 Additional: AP Exam Fee

Advanced Placement (AP) 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. It is recommended that students taking this course take the Advanced Placement (AP) National Exam at the end of the course.

COURSE #4150

Grade Level: 12
 NCAA Core: Yes
 Prerequisite: Physics I; Any Calculus
 Concurrent: Honors Calculus or AP Calculus

Honors Physics 2

Level: Honors
 Credits: 1.0
 Lab: 1 Day

Honors Physics II centers on using calculus to extend some of the principles taught in Physics I and introduces several topics in Modern Physics such as special relativity and particle physics. The class meets 7 periods in a 6 day rotation.

COURSE #4050

Grade Level: 12
 NCAA Core: Yes
 Prerequisite: Honors Chemistry or Chemistry 1
 Concurrent: Physics 1, 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: Any Chemistry Course

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 11 and 12 Grades

COURSE #4025	AP Biology		COURSE #4075	AP Environmental Studies
COURSE #4020	Honors Biology 2		COURSE #4060	Earth and Space
COURSE #4050	Honors Chemistry 2		COURSE #4080	Honors Human Anatomy & Physiology
COURSE #4070	Environmental Studies		COURSE #4140	AP Chemistry
COURSE #4200	Forensic Science			

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.

COURSE # 7170

Grade Level: 9,10, 11, 12

Resolvable around Lab: Yes

Drawing & Painting

Level: Non-weighted

Credits: 1.0

This course is the first in a series of courses designed to teach drawing and painting skills. In the drawing segment of this course, 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, students will learn how to use both acrylic & watercolor paint. Course work also includes an introduction to art appreciation in conjunction with experiences in the following areas: Basic Design explores the principles and elements of design. Regular sketchbook activities are assigned. This course provides students with an excellent preparation for the continued study of the visual arts.

COURSE # 7020

Grade Level: 10, 11, 12

Resolvable around Lab: Yes

Prerequisite: Drawing & Painting

Drawing & Painting 2

Level: Non-weighted

Credits: 1.0

This course continues to enhance a student's skills with drawing and painting in addition to a wide variety of other media (i.e.: Ceramics, Sculpture, Photography, Digital Illustration, etc.). The drawing and painting instruction will emphasize developing basic skills while creating work from observation, personal experience and historical reference. Students will concentrate on the preparation and development of their individual art portfolios. Regular sketchbook activities are assigned. This course provides students with an excellent preparation for the continued study of the visual arts. **This course may be taken twice.**

COURSE # 7030 Honors COURSE #7040

Grade Level: 12

Resolvable around Lab: Yes

Prerequisite: Drawing & Painting Expanded

Honors Drawing & Painting Portfolio AP Art & Design

Level: Honors / AP

Credits: 1.0

Students who have successfully completed Drawing & Painting 2 may enroll in Honors Drawing & Painting Portfolio. 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.

This course may also be taken for A.P. credit.

In the A.P. course: 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. Additional: AP Exam Fee

Visual Arts

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.

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 #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 # 7220

Photography/Digital Art

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

Supplies: Purchase Art Supplies (Approx. \$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 # 7200

Photography 2

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.

Visual Arts

COURSE # 7230

Grade Level: 9-12

Resolvable around Lab: Yes

Animation & Filmmaking

Level: Non-weighted

Credits: 1.0

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

Grade Level: 9-12

Resolvable around Lab: Yes

APP and Game Design

Level: Non-weighted

Credits: 1.0

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.

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.

Music Department

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. It is recommended that students taking this course take the Advanced Placement (AP) National Exam at the end of the course.

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

Music Theory 1 & Songwriting

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

Music Theory 1 and Songwriting is a full year course that introduces students to the basic theory of music through study in music notation, scales, melody, harmony, chord construction, melody writing and ear training. Those basic music aspects will be put to use as the students ultimately learn to write songs for a variety of purposes. The use of computers, synthesizers, and music software is an important part of the course. Students will be required to purchase a Music Theory Workbook at a cost of approximately \$12.00. **No prerequisite.**

COURSE #7380

Music Theory 2 & Songwriting

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: *Music Theory 1 & Songwriting or approval of the instructor.*

This course is an advanced study of music theory and composition. Students will focus on learning to analyze and compose using four-part harmony techniques common to the Baroque and Classical periods of music. Ultimately students will use the techniques studied to compose an original composition. Students will also practice basic ear training skills including melodic and rhythmic dictation and solfege. Students will have the opportunity to work with computer technology in the form of music notation and ear training software. This course is an excellent preparation for students planning to major in music. This course is also an excellent preparation for students wishing to take the AP Music Theory class. To have success in this course, students must have a level of musicianship or be musicians that want to develop their musical skills by developing their ear and by composing music.

COURSE # 7510

Guitar / Piano Lab 1

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

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

Music Production & Digital Recording

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

Music Production and Digital Recording is an entry-level, computer-based course open to all students all four years of High School. Although basic music reading and piano skills are helpful and encouraged, students with little or no music background will find the project-oriented class accessible. Using our cutting-edge software, students will create PodCasts, Mix Tracks, Video Projects, Original Works, Production Techniques, and much more. Each student will be responsible for creating a digital portfolio of work.

Music Production and 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 programs (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 talents 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 # 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 # 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.

Music Department

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 instructor

This class allows students to combine participation in both performance ensembles during one class period for a full credit. This class is open ONLY to the student wishing to elect a band, orchestra and choir class. See individual course descriptions for class information.

COURSE # 7343

Select Choir / Symphony Strings

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: Audition required. Concurrent enrollment in a band course or by approval of instructor.

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 have been selected by audition for both the Select Choir and Symphony Stings ensembles. This class is also open ONLY to students wishing to take orchestra, band and choir class. See individual course descriptions for class information.

COURSE # 7400

String Orchestra

Level: Non-weighted

Grade Level: 9, 10, 11, 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 string orchestra 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 orchestras have traveled to Texas, California, Toronto, St. Louis, Florida, Bahamas, Hawaii.)
- Participation in all social activities and awards sponsored by the Instrumental Music Booster organization.

COURSE #7460

Symphonic Band MB

Level: Non-weighted

Grade Level: 10-12

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: Participation in the NHS Marching Band

This is a concert band performance ensemble for students in Grades 10 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 will be members of the award winning Neshaminy HS Marching Band. Marching Band begins with two weeks of Band Camp in August before school begins and requires participation in 2 evening rehearsals each week and a weekend performance schedule (Friday / Saturday) through early November. Student participation in this course will also include:

- The Instrumental Music Trip (NHS band has performed in Hawaii, Texas, California, Toronto, St. Louis, Florida, New Orleans, Bahamas, Hawaii)
- Eligibility for wind and percussion section of the NHS Symphony Orchestra
- Participation in all social activities and awards sponsored by the Instrumental Music Booster organization

COURSE #7470

Symphonic Band CB

Level: Non-weighted

Grade Level: 10-12

Credits: 1.0

Resolvable around Lab: Yes

This is a concert band performance ensemble for students in Grades 10 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, family vacations or other commitments, are unable to participate in marching band. This ensemble will study and perform a wide variety of concert band literature and continue to develop their band musical skills. Students are expected to attend all performances and a limited number of rehearsals outside of the school day. Performances will at a minimum include the winter and spring band concerts as well as graduation. Students should be aware that this more limited option does not include the bulleted items listed under the Symphonic Band MB option above.

Music Department

COURSE # 7462

9th Grade Band MB

Level: Non-weighted

Grade Level: 9

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: Participation in the NHS Marching Band

This is a concert band performance ensemble for students in Grade 9. Students will study and perform a variety of concert band literature while developing the necessary musical skills to be successful in the high school band program. Students are expected to attend all performances and between 8-10 rehearsals outside of the school day. All students electing this course will be members of the award winning Neshaminy HS Marching Band. Marching Band begins with two weeks of Band Camp in August before school begins and requires participation in 2 evening rehearsals each week and a weekend performance schedule (Friday / Saturday) through early November. Student participation in this course will also include:

- The Instrumental Music Trip (NHS band has performed in Hawaii, Texas, California, Toronto, St. Louis, Florida, New Orleans, Bahamas, Hawaii)
- Eligibility for wind and percussion section of the NHS Symphony Orchestra
- Participation in all social activities and awards sponsored by the Instrumental Music Booster organization

COURSE # 7473

9th Grade Band CB

Level: Non-weighted

Grade Level: 9

Credits: 1.0

Resolvable around Lab: Yes

This is a concert band performance ensemble for students in Grade 9. 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, family vacations or other commitments, are unable to participate in marching band. Students will study and perform a variety of concert band literature while developing the necessary musical skills to be successful in the high school band program. Students are expected to attend all performances and between 8-10 rehearsals outside of the school day. Performances will at a minimum include the winter and spring band concerts as well as graduation. Students should be aware that this more limited option does not include the bulleted items listed under the 9th Grade Band MB option.

COURSE #7480

Wind Ensemble

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: Audition Required. Participation in the NHS Marching Band.

This is an advanced concert band performance ensemble for students in grades 9 through 12. 9th grade students who were selected for the BCMEA Middle School Music Festival will be eligible to audition for this ensemble. 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 will be members of the award winning Neshaminy HS Marching Band. Marching Band begins with two weeks of Band Camp in August before school begins and requires participation in 2 evening rehearsals each week and a weekend performance schedule (Friday/Saturday) through early November. Student participation in this course will also include:

- The Instrumental Music Trip (NHS band has performed in Hawaii, Texas, California, Toronto, St. Louis, Florida, New Orleans, Bahamas, Hawaii)
- Eligibility for wind and percussion section of the NHS Symphony Orchestra.
- Participation in all social activities and awards sponsored by the Instrumental Music Booster organization.

Music Department

COURSE # 7550

Symphony Strings / Symphony Orchestra

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: Audition required.

This is an advanced level string 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 rehearsals and performances outside the school day. Student participation in this course will also include:

- The Instrumental Music Trip (NHS Orchestras has performed in Texas, California, Toronto, St. Louis, Florida, San Francisco, Bahamas, Hawaii.)
- 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

Credits: .5

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 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. Students may also test for a Microsoft Office Specialist Certification if taking specific BCIT courses.

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 eight 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** Financial Literacy
- Information Technology 1
- One business elective chosen by the student

Computer Applications Certificate

- Information Technology 1
- Information Technology 2
- Business Analytics
- Cyber Forensics and Digital Law
- One business elective chosen by the student

Finance and Investment Certificate

- Financial Literacy
- Accounting 1
- Microeconomics **or** Macroeconomics
- Information Technology 1
- One business elective chosen by the student

Entrepreneurship Certificate

- Entrepreneurship
- Accounting 1
- Business Analytics
- Cyber Forensics and Digital Law
- One business elective chosen by the student

Management Certificate

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

Economics Certificate

- Microeconomics
- Macroeconomics
- Financial Literacy **or** Info Technology 1
- Accounting 1
- One business elective chosen by the student

Marketing Certificate

- Marketing for Sports, Entertainment & Events
- Marketing for Hospitality and Tourism
- Entrepreneurship
- Business Analytics
- One business elective chosen by the student

Law Certificate

- Criminal and Civil Law in the Justice System
- Cyber Forensics and Digital Law
- Accounting 1
- Information Technology 1
- One business elective chosen by the student

Business, Computer, and Information Technology 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.

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

Microsoft Office Specialist Certification

A Microsoft Certification is an industry standard recognized worldwide and can help open doors to potential job opportunities, boost a resume, provide evidence of a skill set and lead to higher compensation. Students taking Information Technology 2 are eligible to test for the Microsoft Office Specialist Certification. Students will have received curriculum designed to prepare them for the Excel exam. The BCIT Department at Neshaminy High School is an official Microsoft Certification Testing site and students can make arrangements to test through the BCIT Department. Microsoft does have an exam fee that students will be required to pay.

Business, Computer, and Information Technology Course Offerings

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, financial services, investments, entrepreneurship, consumer credit, and career awareness. Projects and activities will engage students using a variety of methods of learning including internet research, cooperative learning and classroom discussion.

Business, Computer, and Information Technology Department

COURSE # 6130

Marketing for Sports, Entertainment & Special Events

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

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

Management for Sports and Entertainment

Level: Non-weighted

Grade Level: 10, 11, 12

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: Marketing Sports #6130 or Tourism #6280 for grade 10 only

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

Accounting 1

Level: Non-weighted

Grade Level: 9, 10, 11, 12

Credits: 1.0

Resolvable around Lab: Yes

Accounting 1 provides entry-level job skills and preparation for collegiate study in the field of accounting and/or business. 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. Only one math credit can be earned from the BCIT Department

COURSE # 6040

Honors Accounting 2

Level: Honors

Grade Level: 10, 11, 12

Credits: 1.0

Resolvable around Lab: Yes

Dual Enrollment Option College Credit

Prerequisite: Accounting 1

This course provides a 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 and journalizing. This course provides a solid foundation for any college business major.

COURSE # 6050

Honors Accounting 3

Level: Honors

Grade Level: 11, 12

Credits: 1.0

Resolvable around Lab: Yes

Dual Enrollment Option College Credit

Prerequisite: Accounting 2

Students experience advanced accounting procedures and practices. There is a strong emphasis on the interpretation of financial statements. Students evaluate plant assets, report current and long-term liabilities, and determine stockholders' equity. Students calculate financial ratios and component percentages to measure changes in operations. Students will learn QuickBooks online for accounting transactions and reporting.

Business, Computer, and Information Technology Department

COURSE # 6110

Grade Level: 9-12

Resolvable around Lab: Yes

Information Technology 1

Level: Non-weighted

Credits: 1.0

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 high school and 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.

COURSE # 6120

Grade Level: 10, 11, 12

Resolvable around Lab: Yes

Prerequisite: Information Technology 1

Dual Enrollment Option College Credit

Honors Information Technology 2

Level: Honors

Credits: 1.0

Information Technology 2 is a college level course with emphasizes 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.

Throughout the course students will learn the skills needed to become certified in Microsoft Office Excel by completing class projects and practice tests using GMetrix software. Students will have the opportunity to take the Microsoft Office User Specialist Excel test for certification (fee required). The test can be taken at Neshaminy High School in the BCIT Department, as it is an official Microsoft testing site.

COURSE # 6170

Grade Level: 10, 11, 12

Resolvable around Lab: Yes

Financial Literacy

Level: Non-weighted

Credits: 1.0

Will you handle money in the future? Of course, we all will. Regardless of what your interests are, sports, drama, band, science, English, math or business, whether you are going to college, going to trade school or doing something else, you will handle money in the future. You will have to deal with budgets, bills, debt, savings, spending, credit cards, buying a house, buying a car, mortgages, loans and be faced with where to invest your money. In the real world, you are responsible for your financial future. These are just some of the topics covered in the course. If you ever wanted to take a course in high school where you will use the concepts taught for the rest of your life, this is the course. Financial Literacy satisfies the requirement of a one year math credit. Only one math credit can be earned from the BCIT 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. Topics include: characteristics of entrepreneurs, types of ownerships, the business plan, marketing, management, financial reporting and social entrepreneurship.

COURSE # 6280

Grade Level: 9-12

Resolvable around Lab: Yes

Marketing for Hospitality and Tourism

Level: Non-weighted

Credits: 1.0

Travel and Tourism contributed 313 million jobs worldwide (or 10% of total employment) in 2017. Students will look at marketing concepts through the hospitality and tourism industries. Students will see how hotels, restaurants, resorts, cruise lines, and amusement parks use marketing techniques to promote their products and services. Students will focus on marketing strategies to attract visitors to travel locations and events. The students will also explore options in careers

Business, Computer, and Information Technology Department

and higher education for the hospitality and tourism industries. Guest speakers will be invited to provide students with “real world” perspectives and experiences.

COURSE # 6090

Criminal and Civil Law in the Justice System

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

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. A multitude of guest speakers will provide community connections, support for students considering a career path in this field and essential knowledge to be a law abiding citizen.

COURSE # 6125

Honors Microeconomics

Level: Honors

Grade Level: 11, 12

Credits: 1.0

Resolvable around Lab: Yes

Weighted: 5.0

Dual Enrollment Option College Credit

Why has the price of gasoline and oil gone down? Why are income and wealth inequality such big issues today? Why doesn't the government address some of the problems that exist today? What will happen to the economy and markets in the future? How will automation and robotic in business impact employment and the economy? These are just a few of the questions that are explored in microeconomics. Students will look at both public and private sectors in an economy, why prices for products go up or down, how most people cannot have everything they want and face trade-offs, and how government intervention or lack of intervention impacts an economy. The microeconomics course draws on current and past market conditions using current statistics and news such as fluctuating stock market prices and gas prices, how to interpret the news and conditions and develop a prediction of market and economic behavior.

COURSE # 6225

Honors Macroeconomics

Level: Honors

Grade Level: 11, 12

Credits: 1.0

Resolvable around Lab: Yes

Weighted: 5.0

Dual Enrollment Option College Credit

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 performance measures for economic growth. There is an in depth look at inflation, unemployment and price stability from fiscal and monetary policy perspectives. It is recommended students take Microeconomics before Macroeconomics. However, there is no prerequisite and students are permitted to take both courses in one school year.

COURSE # 6095

Cyber Forensics and Digital Law

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

One percent of all crimes today involve DNA while 80% involve some form of e-evidence from computers, cell phones, email, GPS, video and other electronic devices. Digital forensics as a field of study is expected to triple in size by the year 2021. This course looks at digital forensic evidence, how it is acquired and used, either in court or in business. Course topics include finding and preparing for court; camouflaged and deleted files on hard drives, recovering deleted files and basic data encryption and decryption techniques. Also covered is how to acquire digital evidence for use in a court of law with an emphasis on evidence being relevant and admissible in court. Computers are used to research and find data. Mock trials are conducted on the topics covered.

Business, Computer, and Information Technology Department

COURSE # 6100

Grade Level: 11,12

Resolvable around Lab: Yes

Business Mathematics

Level: Non-weighted

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 how to manage your money, expenses, and how to make financial decisions. Topics will include gross pay, net pay, budgeting, financial services, credit cards & credit scores, and loans. Business Math satisfies the requirement of a one-year math credit. Only one math credit can be earned from BCIT Department.

COURSE # 6180

Grade Level: 10,11,12

Resolvable around Lab: Yes

Prerequisite: Information Technology 1

Business Analytics

Level: Non-weighted

Credits: 1.0

Business analytics is the fastest growing college major and career. Analytics will make sense of data for the purpose of developing strategic business decisions. Students will dive into data to answer probing questions. This course will also encourage students to conduct their own surveys to investigate issues, interpret results and make predictions. Microsoft Excel and Tableau are just some of the software applications students will use to organize, chart and visualize the data. Consider taking this course to see if you have a connection with data and an interest in a high-paying career with analytics.

COURSE # 5710

Grade Level: 10,11,12

Resolvable around Lab: Yes

Yearbook

Level: Non-weighted

Credits: 1.0

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. All aspects of producing a high quality publication that include photography, design, writing, marketing and sales will be explored. Students should apply who have these interests. Staff members are expected to photograph, design, write, and meet deadlines for their assigned pages. This includes attendance at co-curricular events and after school meetings. Those students who seek to be an editor should have previous yearbook experience, strong leadership qualities and be highly organized. Summer yearbook camp is an opportunity to gain this experience.



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

FCS: Featuring Community Service

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

\$20.00 Laboratory fee for supplies

FCS 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 FCS promote personal growth, build leadership and teamwork.

COURSE # 8000

Child Development

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

In this course, FCS students learn about real life issues affecting parents, caregivers, and those involved in careers working with children. Students study the physical, intellectual, emotional, and social growth and development, as well as the proper guidance of preschool children. Child development students plan, prepare, observe, and conduct learning activities for our community's four and five-year-olds in the on-site Neshaminy Child Development Laboratory Preschool. Students are also exposed first hand to a wide variety of different careers that involve young children so they have a foundation from which to draw when making a future career choice. Students who plan a career in the childcare industry can begin to earn the experience hours required for the CDA-Ready certification in this course: the candidacy prerequisite for the nationally recognized C.D.A. (Child Development Associate) credential.

COURSE # 8040

Today's Foods

Level: Non-weighted

Grade Level: 9-12

Credits: 1.0

Resolvable around Lab: Yes

\$20.00 Laboratory fee for supplies

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

Independent Living

Level: Non-weighted

Grade Level: 11, 12

Credits: 1.0

Resolvable around Lab: Yes

Independent Living is an exceptionally relevant course designed to prepare students to face the challenges of living on their own. Students will 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, personal renewal, and goal setting. Students will leave this course with the understanding and tools necessary to live life to its fullest potential.

Family and Consumer Science Department

COURSE # 8050

Grade Level: 9-12

Resolvable around Lab: Yes

\$20.00 Laboratory fee for supplies

Honors Nutrition & Dietetics Fitness for Life

Level: Honors

Credits: 1.0

This course provides an investigation into the impact 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. A study of the body's digestive system, including the functions of the specific organs and cells, reveals how the body converts ingested food into the nutrients needed for good health. 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 and practical meals in the lab portion of the course.

Technology and Engineering 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

Grade Level: 9- 12

Resolvable around Lab: Yes

Graphic Design

Level: Non-weighted

Credits: 1.0

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 #8220

Grade Level: 9- 12

Resolvable around Lab: Yes

Honors Robotics and Drone Technology

Level: Honors

Credits: 1.0

This course has been designed for students who would like to explore the rapidly expanding technologies involved in computer programming, building and controlling robots, and flying drones. Students will begin the course with a basic introduction to computer science. Students will apply their computer science skills to control a robot (LEGO EV3 robotic kits) using light, ultrasonic, gyroscopic, touch and motion sensors to solve specific problems. These skills are challenged through the LEGO Mars Exploration Challenge. Students will also control these robots by coding in the language RobotC. The portion of the course parallels Carnegie Mellon University's Robotics Academy. Students will also get the opportunity to learn about unmanned aircraft. They will fly different drones and complete lessons that will prepare them for a FAA UAS license.

COURSE # 8390

Grade Level: 9-12

Resolvable around Lab: Yes

Fee: \$20.00 materials fee

Wood Manufacturing

Level: Non-weighted

Credits: 1.0

This course is designed for the highly motivated hands-on student. This class will take an in-depth look at the materials, equipment and procedures involved in the manufacturing of wood products from conceptualization & production through

Technology and Engineering Department

the finished product. Emphasis is placed on the use of wood working machinery, safety, problem solving, design, technology, fabrication, finishing technology and career options in the woodworking field. Students are required to pass safety tests and demonstrate their ability to use the machinery correctly and safely. Student will produce a number of instructor chosen and develop products/projects, as they get acquainted with the equipment and processes.

COURSE # 8380

Advanced Wood Manufacturing

Level: Non-weighted

Grade Level: 10, 11, 12

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: Wood Manufacturing

Fee: \$20.00 materials fee

This course is designed for the highly motivated hands-on student, who has developed a continuing interest in wood manufacturing, machine and equipment operation and problem solving. In addition to experiences in handling wood material, students are exposed to more in-depth experiences and techniques of manufacturing wood products. This course focuses on the creative application of woodworking skills and the use of the design process to create original works.

COURSE # 8250

Honors Architectural & Interior Design 2

Level: Honors

Grade Level: 10, 11, 12

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: Honors Civil Engineering & Architecture

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 Morning Announcements. Students also have the option to become part of the TV and Video Homeroom, where they have the opportunity to direct and produce the Neshaminy Morning Announcements. Finally, students will learn about various topics including infomercials, commercials and how to conduct, perform and edit interviews that might be aired on the Morning Announcements.

COURSE # 8370

Power, Energy & Transportation

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,

Technology and Engineering Department

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.

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.

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.

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.

Technology and Engineering Department

COURSE # 8350

AP Computer Science Principles

Level: AP

Grade Level: 10, 11, 12

Resolvable around Lab: Yes

Prerequisite: Geometry

Additional: AP Exam Fee

Credits: 1.0

AP Computer Science Principles introduces students to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world. This rigorous course promotes deep learning of computational content, develops computational thinking skills, and engages students in the creative aspects of the field. The application of these skills will result in the students solving open-ended, practical problems that occur in the real world. Focus will be placed on introducing students to object oriented programming environments, specifically the Python language. It is recommended that students take the AP National Exam at the end of the course.

World Language Department

The basic goal of the World Language study is to provide students with the opportunity to develop proficiency skills (speaking, listening, writing and reading) in another language. It is also its intent to expose the students to different. Cultural aspects.

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 develops over time, it is highly recommended that a student completes the fourth or fifth year of the chosen language. A student may study two languages concurrently.

NOTE: Descriptions below refer to both the Spanish and French course listed.

COURSE # 5010

French 1

Level: **Non-weighted**

COURSE # 5210

Spanish 1

Level: **Non-weighted**

Grade Level: 9-12

Resolvable around Lab: Yes

Credits: 1.0

NCAA Core: Yes

This course concentrates on developing students' language skills and cultural awareness to communicate effectively in their proficiency level. Instruction includes communicative and cultural activities. Performance assessments incorporate the evaluation of interpretive, interpersonal and presentational skills.

COURSE # 5020

French 2

Level: **Non Weighed**

COURSE # 5220

Spanish 2

Level: **Non-Weighed**

Grade Level: 9-12

Resolvable around Lab: Yes

Prerequisite: French 1/Spanish 1

Credits: 1.0

NCAA Core: Yes

This course continues the development of language skills and cultural awareness in order to communicate effectively. Students continue to develop their proficiency in the language. By the end of the course, students should be able to reach a Novice- mid or Novice- High proficiency.

COURSE # 5028

Honors French 2

Level: **Honors**

COURSE # 5228

Honors Spanish 2

Level: **Honors**

Grade Level: 9-12

Resolvable around Lab: Yes

Prerequisite: French 1/Spanish 1

Credits: 1.0

NCAA Core: Yes

This course is a pre-AP level course for those students who are seeking higher proficiency of the target language as well as students are expected to communicate at their proficiency level in the target language. Students participate in interpersonal and presentational speaking activities. Students learn and practice conversational strategies that will help them had better communication. Students are exposed to authentic reading and listening samples in order to improve their understanding of the target language as it is used in real world communications. Students will participate in AP level activities appropriate to their proficiency level. The course will follow the curriculum guide for Spanish/French 2; however, the pace of the course will be accelerated and the content will be more rigorous.

World Language Department

COURSE # 5030**COURSE # 5230**

Grade Level: 10, 11, 12

Resolvable around Lab: Yes

Prerequisite: French 2/Spanish 2

French 3

Spanish 3

Level: Non-weighted

Level: Non-weighted

Credits: 1.0

NCAA Core: Yes

This course is designed for students to continue increasing their proficiency to a Novice High or intermediate low level. Students are presented with conversations and readings as they begin to discuss various themes. In conjunctions, students will be exposed to advanced grammar structures reviewing prior knowledge.

COURSE # 5035**COURSE # 5235**

Grade Level: 10, 11, 12

NCAA Core: Yes

Resolvable around Lab: Yes

Prerequisite: French 2/Spanish 2

Honors French 3

Honors Spanish 3

Level: Non-weighted

Level: Non-weighted

Credits: 1.0

This course is a pre-AP level course for those students who are seeking an Intermediate Low and Mid communication level of the target language as well as students are expected to communicate at their proficiency level in the target language. Students participate in interpersonal and presentational speaking activities. Students learn and practice conversational strategies that will help them communicate with ease. Students will be working on developing their writing and reading comprehension skills of authentic material from French/ Spanish Speaking Countries. A strong work ethic and deep interest in language learning is necessary due to the quick pace of the course. Students will participate in AP level activities appropriate to their proficiency level.

COURSE # 5040**COURSE # 5240**

Grade Level: 11, 12

NCAA Core: Yes

Resolvable around Lab: Yes

Prerequisite: French 3/Spanish 3

Honors French 4

Honors Spanish 4

Level: Honors

Level: Honors

Credits: 1.0

This course continues the pre-AP rigor exposing students to more authentic material in the target language. Students strengthen their proficiency of the language through interpretive, interpersonal and presentational activities. The class will be conducted in the target language as well as students are expected to communicate in the target language. With presentation and research of various topics in the target language, students will acquire a deeper knowledge of its products and practices.

COURSE # 5050**COURSE # 5250**

Grade Level: 12

NCAA Core: Yes

Resolvable around Lab: Yes

Prerequisite: French 4H/Spanish 4H

Honors French 5

Honors Spanish 5

Level: Honors

Level: Honors

Credits: 1.0

This course is designed as an alternative to Advanced Placement for students who wish to continue the study of Spanish. The course will continue to improve students' interpersonal, interpretive and presentational proficiency skills as well as deepen their cultural understanding of the target language. The course will be conducted in the target language. There will be an emphasis on improving listening comprehension using authentic materials such as videos, as well as extensive speaking practice. Readings will include all authentic materials such as articles, essays, as well as literary selections. Attention will also be given to improvement in writing. Emphasis will be on conversation and composition.

World Language Department

COURSE # 5060

AP French 5

Level: AP

COURSE# 5260

AP Spanish 5

Level: AP

Grade Level: 12

Credits: 1.0

NCAA Core: Yes

Resolvable around Lab: Yes

Additional: AP Exam Fee

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

This course is designed to increase the level of proficiency with which students express themselves using all interpretive, interpersonal and presentational skills in the target language. The course is conducted **strictly** in the target language and includes in depth 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 as well as historic aspects that have affected any communicative aspect in the target language through the study of authentic materials to prepare students for the Advanced Placement Language examination to earn college credits. It is recommended that students taking this course take the Advanced Placement (AP) National Exam at the end of the course.

Physical Education Department

COURSE #0090 – Grade 9

Physical Education

Level: Non-weighted

COURSE # 0020 – Grade 11, 12

Credits: 0.5

Resolvable around Lab: No

The Neshaminy School District requires each student to complete a physical education course successfully each year. We do this through student choice. Quality physical education is an essential component of Neshaminy students and we offer a standards-based curriculum and instruction.

Standard 1: demonstrate competency in a variety of motor skills and movement patterns.

Standard 2: apply knowledge of concepts, principles, strategies and tactics related to movement and performance.

Standard 3: demonstrate the knowledge and skills to achieve and maintain a health-enhancing level of physical activity and fitness.

Standard 4: exhibits responsible personal and social behavior that respects self and others.

Standard 5: recognizes the value of physical activity for health, enjoyment, challenge, self-expression and/or social interaction.

Students get to select from the activities listed below which are designed to develop motor skills, knowledge, and behaviors for active living, physical fitness, sportsmanship, self-efficacy, and emotional intelligence, while offering a variety of coed activities.

Racket Sports	Adventure/Challenge	Mountain Biking
Outdoor Team Games	Indoor Team Games	Fitness Center
Yoga	Wilderness Exploration	Golf
Recreational Games	Lifetime Activities	Dance/Movement

COURSE # 0170

Adaptive Physical Education

Level: Non-weighted

Grade Level: 9-12

Credits: 0.5

Resolvable around Lab: No

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.

Physical Education Department

COURSE # 0160

Health

Level: Non-weighted

Grade Level: 10

Credits: 0.5

Resolvable around Lab: No

The Neshaminy School District requires that each student must complete a planned course of health in high school. The Neshaminy Health curriculum has been developed to provide information and experiences on topics that are current, relevant and pertinent to the needs and interests of our students. Health topics will include state-required instruction in Drugs and Alcohol as well as HIV/AIDS education. Other topics include: Human Sexuality, Nutrition, First Aid/CPR/AED, Social and Emotional Health and Suicide Prevention

The Neshaminy staff strive to develop Health Literacy as defined in SHAPE as:

“ the ability to access, understand, appraise, apply and advocate for health information and services in order to maintain or enhance one's own health and the health of others.”

Health-literate people are able to address their own health needs along with the needs of others. They are able to obtain and apply knowledge and skills to enhance their own health and the health of others — both now and in the future as their needs change throughout their lives

Physical Education Electives

COURSE # 0010

Exercise Science and Leadership Training

Level: Non-weighted

Grade Level: 11, 12

Credits: 1.0

Resolvable around Lab: Yes

Prerequisite: B or better in Grade 9 PE

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.

General Elective

COURSE #0212 (12TH Grade)

Advancement Via Individual Determination

Level: Non-weighted

COURSE # 0211 (11TH Grade)

(AVID)

Credits: 1.0

COURSE #0210 (10TH Grade)

COURSE #0290 (9TH Grade)

Grade Level: 9,10

Resolvable around Lab: Yes

The AVID elective supports students in their efforts to reach the highest academic standards; provides students with academic and social supports; and facilitates success in high school, college and a career. AVID is especially designed for students traditionally underrepresented in higher education.

AVID helps students rise to the challenges of today's ever-changing world by developing students' critical thinking, habits of mind, literacy and math skills across all content areas.

Student will:

- Learn skills and behaviors for academic success,
- Get intensive support with tutorials building strong student/teacher relationships,
- Work with a positive peer group, and
- Develop a sense of hope for personal achievement gained through hard work and determination.

You can find out more about AVID by visiting <http://www.avid.org/>

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.



- 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.

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 Education	0009	Physical Education	None Required
8	Lunch	5500	Lunch	None Required
	Elective 3 – Instead of lunch 7 th Major			

Grade 9 Overview of Course Offerings 2021-2022

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	3170 Honors Math 1 3010 Honors Algebra 2 3020 Algebra 2 3160 Honors Geometry 3155 Geometry 3002 Algebra 1 Part 1 S3002 Algebra 1 Part 1 with modifications 3000 Algebra 1	4910 Honors Biology 1 4000 Biology 1 4900 Integrated Science S4900 Integrated Science with modifications

Full Credit Electives

World Language	Technology & Engineering Department	Language Arts	Music	Family & Consumer Sciences	Business, Computer, & Information Technology	Art
5210 Spanish 1 5220 Spanish 2 5228 Honors Spanish 2 5010 French 1 5020 French 2 5028 Honors French 2	8205 Honors Intro. .Engineering Design (IED) 8220 Honors Robotic & Drone Technology 8330 Graph Design 8390 Wood Manufacturing 8260 Honors Civil Engineering Architecture 8400 TV Video Prod 1 8370 Power, Energy and Transportation	1055 Drama Full 1060 Journalism 1065 Creative Writing <hr/> General <hr/> 0290 AVID Advancement Via Individual Determination	7390 Music Theory 1& Songwriting 7380 Music Theory 2 & Song Writing 7310 Freshman Choir 7340 Concert Choir/ String Orchestra 7343 Select Choir/ Symphony Strings 7400 String Orchestra 7462 9 th Grade Band MB 7473 9 th Grade Band CB 7480 Wind Ensemble 7510 Guitar/Piano Lab 7530 Music Production & Digital Recording 7550 Symphony Strings/ Symphony Orch.	8000 Child Development 8020 FCS: Featuring Community Service 8060 Independent Living 8040 Today's Foods 8050 Honors Nutrition: Fit for Life	6000 Intro to Business 6130 Marketing for Sports, Ent. & Special Events 6010 Accounting 1 6110 Info Technology 1 6070 Entrepreneurship & Innovation 6090 Criminal & Civil Law 6095 Cyber Forensics & Digital Law 6280 Marketing for Hospitality and Tourism	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 →		1070 Myth & Folk 1090 Public Speaking	7500 Intro. To Music			

- 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	Health	None Required
8	Lunch	5500	Lunch	None Required
	Elective 3 – Instead of lunch 7 th Major			

Grade 10 Overview of Course Offerings 2021-2022

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	2011 AP World 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 3250 Precalculus 3020 Algebra 2 3155 Geometry 3000 Algebra 1 3090 AP Computer Science A	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) 4200 Forensics

ELECTIVES

World Language	Technology & Engineering Department	Language Arts	Music	Family & Consumer Sciences	Business, Computer, & Information Technology	Art
5210 Spanish 1 5220 Spanish 2 5228 Honors Spanish 2 5230 Spanish 3 5235 Honors Spanish 3 5010 French 1 5020 French 2 5028 Honors French 2 5030 French 3 5035 Honors French 3	8205 Honors Intro. Engineering Design (IED) 8215 Honors Principles of Engineering 8350 AP Computer Science Principles 8220 Honors Robotics & Drone Technology 8330 Graph Design 8390 Wood Manufacturing 8380 Advanced Wood Manufacturing 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	1055 Drama Full 1060 Journalism 1065 Creative Writing 5560 Newspaper General 0210 AVID Advanced Via Individual Determination	7370 AP Music Theory 7390 Music Theory1 & Songwriting 7380 Music Theory 2 & Songwriting 7320 Select Choir 7300 Concert Choir 7340 Concert Choir/ String Orchestra 7343 Select Choir/ Symphony Strings 7400 String Orchestra 7460 Symphonic Band MB 7470 Symphonic Band CB 7480 Wind Ensemble 7510 Guitar/Piano Lab 1 7515 Guitar/Piano Lab 2 7530 Musical Production & Digital Recording 7550 Symphony Strings/ Symphony Orch.	8020 FCS: Featuring Community Service 8000 Child Development 8060 Independent Living 8040 Today's Foods 8050 Honors Nutrition: Fit for Life	6000 Intro to Business 6130 Marketing for Sports, Ent. & Special Events 6140 Management for Sports and Entertainment 6010 Accounting 1 6040 Honors Accounting 2 6110 Info Technology 1 6120 Honors Info. Technology 2 6170 Financial Literacy 6180 Business Analytics 6070 Entrepreneurship & Innovation 6090 Criminal & Civil Law 6095 Cyber Forensics & Digital Law 6280 Marketing for Hospitality & Tourism 5710 Yearbook	7170 Drawing & Painting 7020 Drawing & Painting 2 7140 Design & Illustration 7210 APP & Game Design 7250 Ceramics, Sculpture and Jewelry 7260 Ceramics, Sculpture and Jewelry 2 7220 Photo/Digital Art 7200 Photography 2 7230 Animation and Filmmaking
Half-Credit Electives →		1070 Myth & Folk 1090 Public Speak.	7500 Intro. To Music			

- 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 Education	0020	Physical Education	None Required
8	Lunch	5500	Lunch	None Required
	Elective 3 - Instead of lunch (7 th Major)			

Grade 11 Overview of Course Offerings 2021-2022

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
1100 AP English 11Language & Composition 1110 Honors English 11 1120 English 11 S1120 English 11 with modifications 1150 Foundations English 11	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	3200 AP Calculus AB 3190 Honors Math 2 3210 Honors Calculus 3260 Honors Precalculus 3250 Precalculus 3020 Algebra 2 3180 AP Statistics 3025 Algebra 3 3270 Statistics 3155 Geometry 3270 Statistics 3090 AP Computer Science A	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 4200 Forensic Science

ELECTIVES

World Language	Technology & Engineering Department	Physical Education	Music	Family & Consumer Sciences	Business, Computer, & Information Technology	Art
5210 Spanish 1 5220 Spanish 2 5228 Honors Spanish 2 5230 Spanish 3 5235 Honors Spanish 3 5240 Honors Spanish 4 5010 French 1 5020 French 2 5028 Honors French 2 5030 French 3 5035 Honors French 3 5040 Honors French 4	8205 Honors Intro. Engineering Design (IED) 8215 Honors Principles of Engineering 8350 AP Computer Science Principles 8220 Honors Robotics & Drone Technology 8330 Graph Design 8390 Wood Manufacturing 8380 Advanced Wood Manufacturing 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	0010 Exercise Science & Leadership Training Language Arts 1055 Drama Full 1060 Journalism 1065 Creative Writing 5560 Newspaper	7370 AP Music Theory 7390 Music Theory 1 & Songwriting 7380 Music Theory 2 & Songwriting 7320 Select Choir 7300 Concert Choir 7340 Concert Choir/ String Orchestra 7343 Select Choir/ Symphony Strings 7400 String Orchestra 7460 Symphonic Band MB 7470 Symphonic Band CB 7480 Wind Ensemble 7510 Guitar/Piano Lab 1 7515 Guitar/Piano Lab 2 7530 Music Production & Digital Recording 7550 Symphony Strings/ Symphony Orch.	8020 FCS: Featuring Community Service 8000 Child Development 8060 Independent Living 8040 Today's Foods 8050 Honors Nutrition: Fit for Life General 0211 AVID Advanced Via Individual Determination	6130 Marketing for Sports, Ent. & Special Events 6140 Management for Sports and Entertainment 6010 Accounting 1 6040 Honors Accounting 2 6050 Honors Accounting 3 6110 Info Technology 1 6120 Honors Info. Technology 2 6170 Financial Literacy 6180 Business Analytics 6070 Entrepreneurship & Innovation 6090 Criminal & Civil Law 6095 Cyber Forensics & Digital Law 6280 Marketing for Hospitality & Tourism 6125 Honors Microeconomics 6225 Honors Macroeconomics 6100 Business Math 5710 Yearbook	7170 Drawing and Painting 7020 Drawing and Painting 2 7140 Design & Illustration 7210 APP & Game Design 7250 Ceramics, Sculpture and Jewelry 7260 Ceramics, Sculpture and Jewelry 2 7220 Photo/Digital Art 7230 Animation and Filmmaking 7200 Photography 2
Half-Credit Electives →		1070 Myth & Folk 1090 Public Speak.	7500 Intro. To Music			

- All students must carry a minimum 6.5 Credits. – Exceptions: Senior Privilege and Bucks
- 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 Education	0020	Physical Education	None Required
8	Lunch	5500	Lunch	None Required
	Elective 3 - Instead of lunch (7 th Major)			

Grade 12 Overview of Course Offerings 2021-2022

CORE COURSES

Language Arts	Social Studies	Mathematics	Science
Select a Full Year Course	Select a Full Year Course	Select a Full Year Course	Select a Full Year Course
1200 AP English 12 1205 AP AE English 12 1210 Honors English 12 1220 English 12 S1220 English 12 with modifications 1250 Foundations English 12	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 2425 Civics & Economics/Psychology S2425 Civics & Economics/Psychology with modifications 2470 Civics & Economics/Govt. and Current Issues 2480 Civics & Economics/Women Studies	3200 AP Calculus AB 3205 AP Calculus BC 3180 AP Statistics 3220 Honors Calculus 2 3210 Honors Calculus 3215 Calculus 3250 Precalculus 3025 Algebra 3 3020 Algebra 2 3270 Statistics 3090 AP Computer Science A	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 4200 Forensics

ELECTIVES

World Language	Technology & Engineering Department	Physical Education	Music	Family & Consumer Sciences	Business, Computer, & Information Technology	Art
5210 Spanish 1 5220 Spanish 2 5228 Honors Spanish 2 5230 Spanish 3 5235 Honors Spanish 3 5240 Honors Spanish 4 5250 Honors Spanish 5 5260 AP Spanish 5 5010 French 1 5020 French 2 5028 Honors French 2 5030 French 3 5035 Honors French 3 5040 Honors French 4 5050 Honors French 5 5060 AP French 5	8205 Honors Intro Engineering Design (IED) 8215 Honors Principles of Engineering 8350 AP Computer Science Principles 8220 Honors Robotics & Drone Technology 8330 Graph Design 8390 Wood Manufacturing 8380 Advanced Wood Manufacturing 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	0010 Exercise Science and Leadership Training Language Arts 1055 Drama Full 1060 Journalism 1065 Creative Writing 5560 Newspaper	7370 AP Music Theory 7390 Music Theory 1 & Songwriting 7380 Music Theory 2 & Songwriting 7320 Select Choir 7300 Concert Choir 7340 Concert Choir/ String Orchestra 7343 Select Choir/ Symphony Strings 7400 String Orchestra 7460 Symphonic Band M B 7470 Symphonic Band CB 7480 Wind Ensemble 7510 Guitar/Piano Lab 1 7515 Guitar/Piano Lab 2 7530 Music Production & Digital Recording 7550 Symphony Strings/ Symphony Orch.	8020 FCS: Featuring Community Service 8000 Child Development 8060 Independent Living 8040 Today's Foods 8050 Honors Nutrition: Fit for Life General 0212 AVID Advanced Via Individual Determination	6130 Marketing for Sports, Ent. & Special Events 6140 Management for Sports and Entertainment 6010 Accounting 1 6040 Honors Accounting 2 6050 Honors Accounting 3 6110 Info Technology 1 6120 Honors Info. Technology 2 6170 Financial Literacy 6180 Business Analytics 6070 Entrepreneurship & Innovation 6090 Criminal & Civil Law 6095 Cyber Forensics & Digital Law 6280 Marketing for Hospitality & Tourism 6125 Honors Microeconomics 6225 Honors Macroeconomics 6100 Business Math 5710 Yearbook	7170 Drawing & Painting 7020 Drawing & Painting 2 7030 Honors Drawing & Painting Portfolio 7040 AP Art & Design 7140 Design & Illustration 7210 APP & Game Design 7250 Ceramics, Sculpture & Jewelry 7260 Ceramics, Sculpture and Jewelry 2 7220 Photo/Digital Art 7230 Animation and Filmmaking 7200 Photography 2
Half-Credit Electives →		1070 Myth & Folk 1090 Public Speak.	7500 Intro. To Music			

Contact Information

Mr. Ryan Staub - 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. Stephen Pirritano – President

Mr. John Allen – Vice President

Ms. Cyndie Bowman

Mr. Adam Kovitz

Ms. Irene Boyle

Mr. David Marrington

Ms. Tina Hollenbach

Mr. Paul Saraullo

Mr. Marty Sullivan

District Administration

Superintendent of Schools Mr. Joseph Jones

Assistant to the Superintendent/Director of Administration..... Mr. Paul Meehan

Director of Secondary Education Dr. Robert McGee

Director of Pupil Services Mr. Anthony Devlin

Business Administrator Mr. Donald Irwin, Jr.

High School Administration

Principal Mr. Ryan Staub

Assistant Principal – Academics and Scheduling..... Mrs. Lisa Pennington

Assistant Principal – Athletic and Co-Curricular Director Mr. Thomas Magdelinkas

Assistant Principal – Grade Level 09 Office Mr. Colin Trickle

Assistant Principal – Grade Level 10 Office Mr. William Ritchey

Assistant Principal – Grade Level 10 Office Ms. Lynn Knotts

Assistant Principal – Grade Level 12 Office Mr. Robert Mueller

High School Guidance

High School Guidance Department Chairperson..... Mrs. Casey Rodgers

Guidance Counselor Ms. Catherine Bond

Guidance Counselor Mrs. Patience Burton

Guidance Counselor Mrs. Jennifer Coe

Guidance Counselor Ms. Traci Hindle

Guidance Counselor Mrs. Heather Krajcer

Guidance Counselor Mr. Jeffery McCaughey

Guidance Counselor Mrs. Jill Ortman

Guidance Counselor Ms. Christina Savage

Guidance Counselor Mr. Erik Styer

High School Department Chairpersons

Business, Computer, and Information Technology Department Mrs. Janis Innocenti

English Department..... Mr. Chris DiCicco

Family and Consumer Science Department Mrs. Ann Caminiti

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

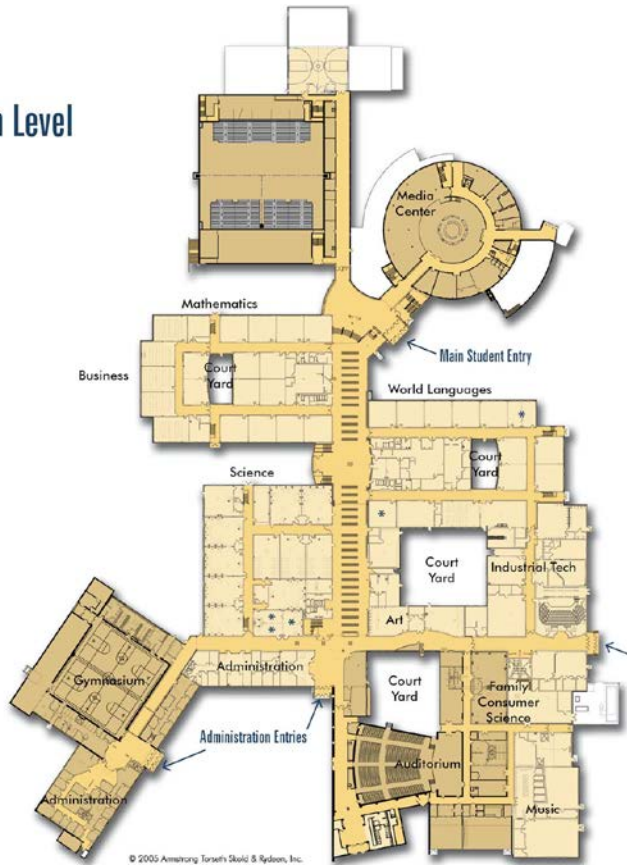
Science Department..... Mr. Matthew Thompson

Social Studies Department Mr. Josh Stoner

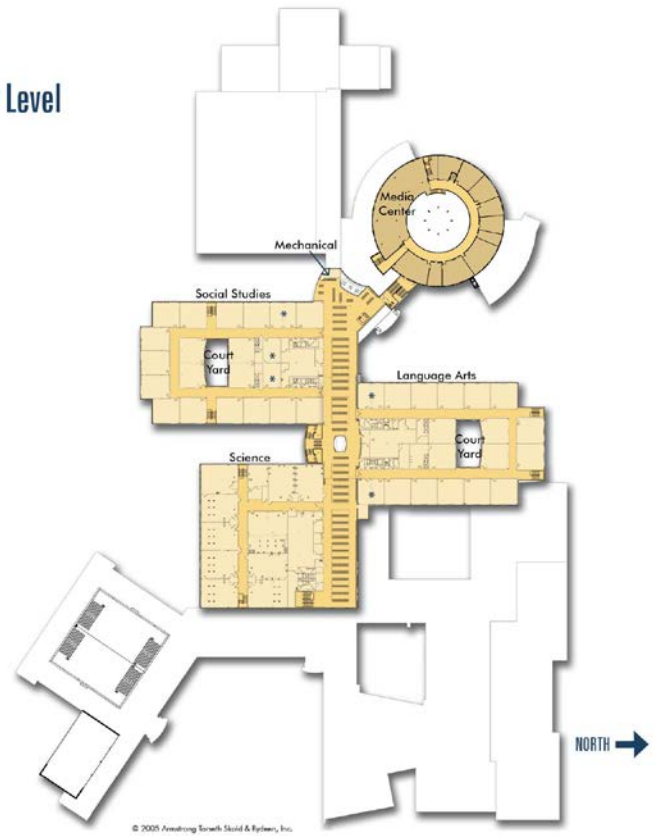
World Language Department Mrs. Diana Jennings

Neshaminy High School 2021-2022

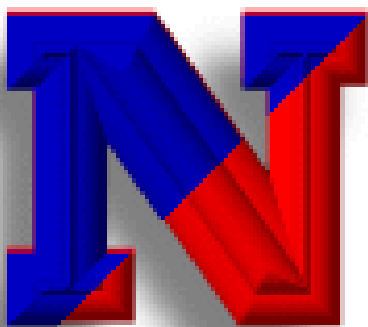
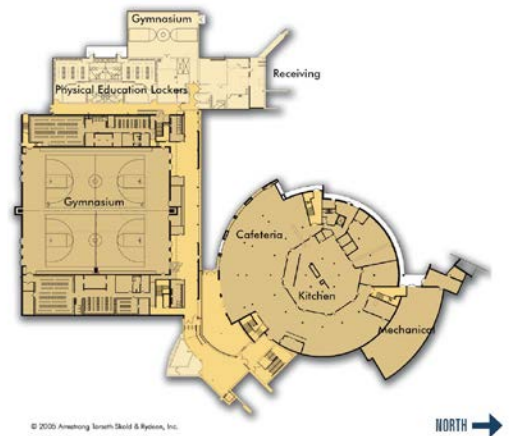
Main Level



Upper Level



Lower Level



"We Build Futures"