

NORRISTOWN AREA HIGH SCHOOL



**PROGRAM of STUDIES
2023 - 2024**

PROGRAM OF STUDIES

NORRISTOWN AREA HIGH SCHOOL

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FORWARD

The NAHS Program of Studies is designed to help students and parents/guardians choose, follow, and complete a path to graduation that will prepare students for success beyond high school. This document provides general information, including the policies, procedures and requirements of the Norristown Area School District and NAHS, and includes descriptions of all of our course offerings.

Our mission is to maintain high expectations for all of our students. Together as teachers, staff members, and administrators, we strive to consistently improve our instructional practices in order to support student success. We encourage students, parents, and guardians to become familiar with the contents of the Program of Studies that will be supporting the successful educational environment at NAHS.

All courses are college preparatory because we believe that it is our responsibility to provide all students with the opportunity to go to college. There is a Weighted Honors option for many of our core courses. There are also a variety of Advanced Placement offerings in order to enable students to earn college credit while in high school.

All NAHS students and their parents/guardians, have access to a variety of support services to assist them with this course selection process. Our Guidance Office and College and Career Center services are described in detail in our student handbook, *The N Book*, which all students receive at the beginning of each school year.

TABLE OF CONTENTS

GENERAL INFORMATION

Subject Level Placement.....	7
Program Registration and Alteration	7
Advanced Placement.....	7
Dual Enrollment.....	7
College-Bound Athletes.....	7
Graduation Requirements	8
Promotion Requirements	8
Keystone Exams and Graduation Pathways	9
Transfer Credits	10
Middle School Math Credits.....	10
Course Prerequisites.....	10
Course Requests.....	11
Withdrawing from a Course.....	11
Grade Calculation	11
Valedictory and Salutatory Honors.....	11

COURSE DESCRIPTIONS

Core Curriculum

English	13
Mathematics	17
Science	19
Social Studies.....	22
Health and Physical Education	24
Freshman Literacy	25

Electives

Art	27
Business and Finance	29
Engineering and Technology	32
English and Communication.....	34
Health and Physical Education	38
Junior ROTC.....	39
Mathematics	39
Music	42
Performing Arts	44
Science	45
Social Studies	48
World Language.....	49
Additional Electives.....	53

Special Programs

Virtual High School	56
Gifted Education	56
Special Education.....	57
English Language Development.....	59
Central Montgomery County Center for Technical Studies	60



GENERAL INFORMATION

GENERAL INFORMATION

Subject Level Placement

In many of our required courses, students are placed at various instructional levels by the professional staff. These decisions are based on the individual needs of students, their ability, and past achievement in each subject area. We encourage students to work to their maximum potential. Parents are encouraged to contact the present subject area teacher should there be a question about their student's subject level placement. Parents can override that placement by contacting a counselor.

Program Registration and Alteration

During the registration period for the next year's courses, each student and parent should carefully review and select subjects that will comprise the next school year's program. Teachers and counselors are available for advice and assistance. Once courses have been selected and submitted to the Guidance Counselor, the program becomes a contract for the next year. Every effort will be made to offer the program as selected by the student and parent; however, certain courses may be canceled due to inadequate enrollment, and others may not be available because of an irresolvable conflict in course availability due to staffing. Student selections must be done carefully at the appropriate time as outlined above. Most students should have no changes after the original course selection in the spring. After school begins in the fall, schedule changes will be made only to correct an error or to accommodate scheduling demands of the building.

Advanced Placement (AP) Opportunities

Advanced Placement courses are designed to expose students to college-level coursework and activities including intense discussions, collaborative problem solving, and challenging persuasive writing assignments. Students enrolling in an AP course must be committed to dedicating time outside of class to reading and writing assignments. **All students enrolled in the course are required to take the AP exam in the spring.** Scores of 3, 4, or 5 on these exams may translate into college credit at recognized institutions of higher learning. **Once a student has opted into an Advanced Placement or Weighted Honors course, a change to a different course will not be made if course is on student requests form.**

Dual Enrollment (DE) Opportunity

Norristown Area High School has partnered with Montgomery County Community College (MCCC) for Dual Enrollment opportunities for students. Students may receive both college and high school credit for the successful completion of dual enrollment courses. **NAHS advises that students research the schools they are interested in attending post-high school to verify the transferability of Norristown's Dual Enrollment and MCCC course credits. All colleges/universities do not always take DE class credits and students should research potential transferability to the institution in which they are interested.** Given that there are financial obligations to dual enrollment courses, if you are interested in enrolling but have financial hardship, please reach out to your school counselor.

College-Bound Athletes

Students should be aware that the National Collegiate Athletic Association (NCAA) maintains strict criteria for the college admission of athletes. All courses marked by the NCAA logo represent courses that meet the requirements to be considered an approved core course for the NCAA Eligibility Center. Please consult with your counselor and athletic coach concerning these requirements and how they affect your acceptance to the college of your choice. The link for more information is <https://web3.ncaa.org/ecwr3/>.

GRADUATION REQUIREMENTS

Norristown Area School District and the State of Pennsylvania mandate a combination of requirements for graduation: In order to graduate from a public high school in Pennsylvania, a student must meet specific requirements established by the Local Education Agency (Norristown Area School District) in which they are enrolled. These local requirements include graduation requirements mandated by the Commonwealth to guarantee that a Pennsylvania diploma reflects the knowledge and skills that our graduating students need to be successful in college and the workplace in an increasingly complex and challenging economy.

In addition to the Local Education Agency’s graduation requirements, students must complete one of the state’s graduation pathways.

Norristown Area School District Course Requirements –

<u>Discipline Area</u>	<u>Courses</u>
English I, II, III, IV	4 credits
Math/Science Class of 2024: Algebra I, Geometry, Math elective Biology, Chemistry, Science elective Choice of Science or Math elective Class of 2025, 2026, 2027: Algebra I, Algebra II, Geometry Biology, Chemistry, Science elective Choice of Science or Math elective	7 credits
Social Studies Class of 2024, 2025: US History, Civics & Government, Social Studies elective Beginning with the Class of 2026: World Cultures, US History, Civics & Government	3 credits
Wellness	1 credit
Electives	8 credits

Remediation

Students who do not demonstrate proficiency in any required course by passing the course, or fail to earn the prescribed number of credits for grade promotion or graduation will be required to recover the missing credits.

Promotion Requirements

Minimum Credits Required	to Enter Grade
5.0	10
11.0	11
17.0	12
23.0	to Graduate



Pennsylvania Department of Education

Keystone Exams

To aid the district in monitoring the achievement of all students, various assessments are administered annually to ascertain tangible data about students' academic skills. Assessment data is one key factor in student course placement. The Keystone Exams, instituted by the PA State Board of Education, are end-of-course assessments designed to assess student proficiency in the subject areas of Algebra, Biology and Literature. Federal accountability requirements state that students must take the Keystone Exams at least one time prior to (or during) the spring of their eleventh grade year. Student Keystone scores are tabulated for school data in a student's 11th grade year. Students taking the Keystone Exam in grades 9 and 10 and who score in the proficient range will have their scores banked for their 11th grade year. To monitor the reading and math achievement of students prior to grade 11, the district administers annual reading and math tests to students in grades 9 and 10. Results are used to place students into appropriate courses and remedial programs.

Act 158: Graduation Pathways

In addition to the 23 credits required by the Norristown Area School District to graduate from high school, the Commonwealth of Pennsylvania has enacted new requirements for graduation starting with the Class of 2023. These requirements provide for five different pathways to graduation. Students must successfully meet the requirements of one of the five pathways outlined below. For more information please visit <https://www.education.pa.gov>. These pathways are as follows:

KEYSTONE PROFICIENCY

In addition to completing the required 23 course credits as outlined in the Program of Studies, students must score proficient or advanced on all three Keystone Exams prior to the end of eleventh grade. These exams are given in Algebra, Biology, and Literature.

KEYSTONE COMPOSITE SCORE

In addition to completing the required 23 course credits as outlined in the Program of Studies, students must score proficient or advanced on at least one Keystone Exam, and no lower than basic on the other two while earning a composite score of 4452 (meaning all three scores added together must equal 4452 or higher). Proficiency requires a score of 1500. A student who scored exactly 1500 on one Keystone Exam would need to average 1476 on the other two Keystone Exams, with neither score being below basic.

ALTERNATE ASSESSMENT

In addition to completing the required 23 course credits as outlined in the Program of Studies, students must do one of the following:

- Score 1010 or higher on the SAT (not including the writing section)
- Score 970 or above on the PSAT
- Score 21 or above on the ACT
- Attain the minimum score required by any branch of the military on the ASVAB
- Score a 3 or higher on an Advanced Placement Exam that is related to the subject of EACH Keystone Exam for which the student did not score proficient or advanced
- Successfully complete a Dual Enrollment course that is related to the subject of EACH Keystone Exam for which the student did not score proficient or advanced
- Successfully complete a pre-apprenticeship program
- Earn acceptance to an accredited four-year nonprofit postsecondary institution AND have evidence of the ability to enroll in college-level coursework (non-remedial)

EVIDENCE BASED

In addition to completing the required 23 course credits as outlined in the Program of Studies, students must have evidence of one Category One option and two Category Two options as listed below:

Category One (must have one)

- A score of 630 or above on an SAT Subject Test
- A score of 3 or higher on an AP Exam
- Acceptance to any accredited nonprofit post-secondary institution and evidence of the ability to enroll in college-level work
- Attainment of an industry-recognized credential
- Successful completion of a Dual Enrollment or postsecondary course

Category Two (must have two)

- Additional items from Category One
- Completing a service-learning project
- Scoring proficient or advanced on a Keystone Exam
- A letter guaranteeing full-time employment
- Successful completion of an internship or cooperative education program
- Meeting the NCAA Clearinghouse requirements, including a 2.0 GPA

CAREER AND TECHNICAL EDUCATION

In addition to completing the required 23 course credits as outlined in the Program of Studies, students must do one of the following:

- Attain an industry-based competency certification related to the student's CTE program
- Demonstrate a high likelihood of success on an approved industry-based competency assessment
- Demonstrate readiness for continued meaningful engagement in the area of the CTE program of study

The Pennsylvania Department of Education allows for students with disabilities to earn a diploma upon successful completion of their Individualized Education Plan (IEP) if the IEP team demonstrates and documents that the pathways listed above are outside of the scope of the student's IEP.

Transfer Credits

Because of the variety of high school schedule models currently in existence (e.g., traditional, 4X4, A/B), transfer credits present a unique challenge. During the registration/scheduling process, counselors will review an incoming student's transfer credits and provide a detailed path to graduation. Every effort will be made to align transfer credits with the NAHS Program of Studies. However, in order to receive an NAHS diploma, students must meet the NAHS requirements as outlined in this document, particularly with regard to the requirements for English, Math, Science, Social Studies, and Physical Education.

Students who transfer to our school at the end of a complete school year are most easily accommodated. Students who transfer during the school year without a significant interval between the time they left their previous school and the time they enroll here are generally able to attain a path to graduation with their class. However, students, parents, and guardians should be aware that a transfer occurring after a significant interval between the time students left their previous school and the time they enroll here are subject to receiving partial credit that will require some form of remediation in order to graduate with their class.

Middle School Math Credits

Students who successfully complete a high school math course (i.e. Algebra I and/or Geometry), will receive high school credit for that course(s). Please note, the grade earned will not be calculated into students high school grade average (GPA) and the student will still need to successfully complete 3 or 4 additional math credits as outlined in the graduation requirements.

Course Prerequisites

Many courses, especially Advanced Placement or Weighted Honors courses, have prerequisites listed in the Program of Studies.

Course Requests

If there are not a minimum of 15 requests for a course, there is a strong probability that the course will not be offered.

Withdrawing from a Class After the School Year Starts

With mutual agreement between the student, parent, counselor, and administrator, a course may be dropped from a student's schedule once the school year begins. Any such drop after the second week of the semester will result in a withdraw grade being permanently recorded on the student's transcript. If a student's grade in the class from which they are withdrawing is failing at the time of the withdrawal, the student will receive a WF (Withdrawn/Fail) from the course. In calculating the grade point average, withdrawal failing will be considered an attempted credit and withdrawal passing will not be considered as an attempted credit. **Once a student has opted into an Advanced Placement or Weighted Honors course, a change to a different course will NOT be made if course is on student's request form.**

GRADE POINT AVERAGE (GPA) CALCULATION

Grade Point Average is used to determine class rank within each grade. Class rank is used as an academic descriptor for college admissions and employers. Class rank, grades, and other achievement factors are used by the faculty to select academic honors and awards at graduation. Class rank and GPA are posted on students' transcript and can be found on the Home Access Center (HAC).

Grade Scale

Grade	Scale	Academic	Honors	AP
A+	97 to 100%	4.33	4.83	5.33
A	93 to 96%	4.00	4.50	5.00
A-	90 to 92%	3.67	4.17	4.67
B+	87 to 89%	3.33	3.83	4.33
B	83 to 86%	3.00	3.50	4.00
B-	80 to 82%	2.67	3.17	3.67
C+	77 to 79%	2.33	2.83	3.33
C	73 to 76%	2.00	2.50	3.00
C-	70 to 72%	1.67	2.17	2.67
D+	67 to 69%	1.33	1.83	2.33
D	63 to 66%	1.00	1.50	2.00
D-	60 to 62%	0.50	1.00	1.50
F	59% and Below	0.00	0.00	0.00
WP	Withdrawal Pass (no credit given)	0.00	0.00	0.00
WF	Withdrawal Fall	0.00	0.00	0.00

GPA will be calculated total of quality points divided by earned credits.

Valedictory and Salutatory Honors

Valedictory and Salutatory Honors designations are based on the highest and second highest GPA respectively. Students with identical GPAs will be further ranked in descending order according to the number of credits earned.



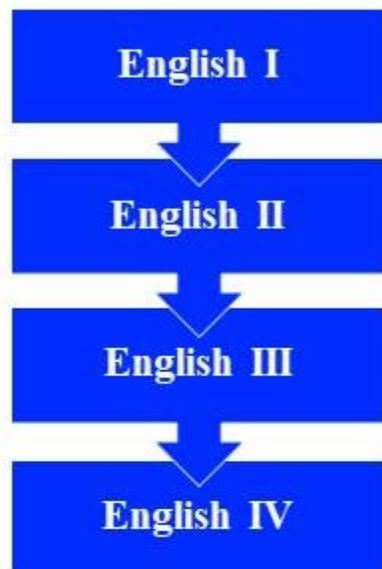
CORE CURRICULUM

The following courses are graduation requirements in the areas of English, Math, Science, Social Studies, and Health/Physical Education:

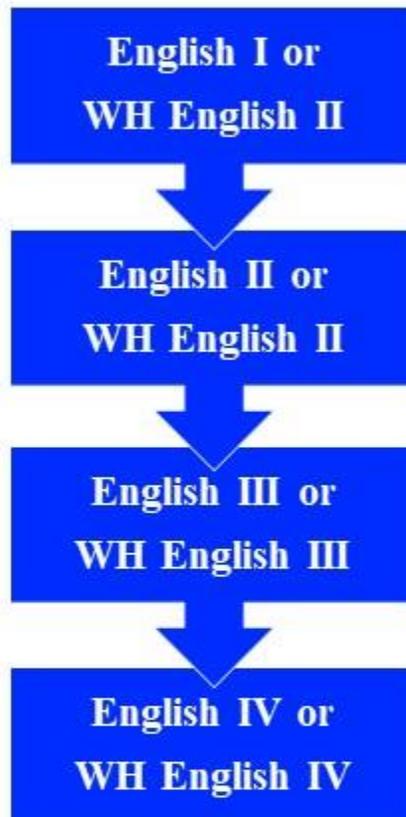
English Course Pathways 2023-2024

SAMPLE

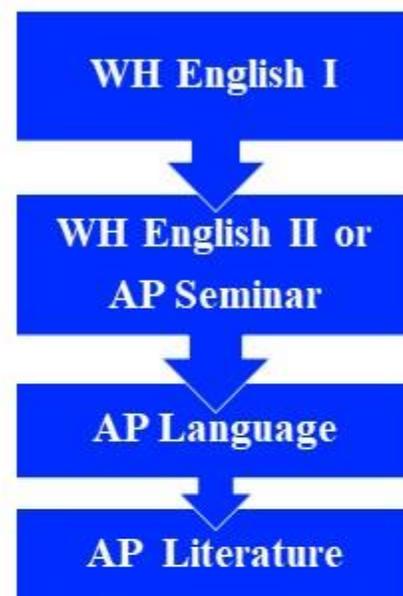
Academic



College Prep



Weighted Honors



ENGLISH

All English courses are rigorous academic programs that focus on higher level thinking skills and are aligned to PA Core standards.

001 - English I - Required

Grade - 9

1 Credit

English I will consist of an introduction to literature (short stories, *Romeo and Juliet* and poetry, with emphasis on basic literary terminology) and expository writing (organization, unity, development of good paragraph and composition structure, and grammar remediation as needed). In addition, each student is required to read several novels and complete a research project. The 9th Grade English course uses My Perspectives textbook which is aligned to the PA Core standards for English and Language Arts. As such, students in 9th grade English will be reading literature through a lens that explores author's purpose, text analysis and character development in addition to the other PA Core standards.

0010 - English I – WH

Grade - 9

1 Credit

The course's workload and level of material is more challenging and includes additional material and advanced activities presented at an increased pace. The 9th grade Honors class focuses on literary genre and type. The 9th Grade Weighted Honors English course uses My Perspectives textbook which is aligned to the PA Core standards for English and Language Arts. As such, students in 9th grade WH English will be reading literature through a lens that explores author's purpose, text analysis and character development in addition to the other PA Core standards. In an honors class, the level of in-class discussion and outside work will be more rigorous and students will be expected to do a great deal of outside reading, writing, independent work, and text analysis.

002 - English II - Required

Grade - 10

1 Credit

Prerequisite: Successful Completion of English I

English II expands on basic composition structure and introduces practical writing formats. These structures are applied to the study of literary genre. A vocabulary unit, which includes word lists and a variety of dictionary and verbal skills, prepares students for tests including the PSAT. Grammar study and remediation follow writing and assignments. A short research paper and several speaking activities are included. The 10th Grade English course uses the Holt McDougal textbook which is aligned to the PA Core standards for English and Language Arts. As such, students in 10th grade English will be challenged to read complex literature and explore such ideas as author's voice, point of view, and text structure in addition to the other PA Core standards. Upon successful completion of this course, students will take the Keystone Exam.

0020 - English II – WH

Grade - 10

1 Credit

Prerequisite: Successful Completion of English I and Teacher Recommendation or Successful Completion of English I WH

Honors English II is a rigorous academic program that focuses on higher level thinking skills as well as the state standards. The course's workload and level of material presented are challenging. The 10th grade honors class includes a study of literary genres and literary devices through a variety of works from American and European authors. The course focuses on writing and presentations as well as critical literary analysis. Students who take this course will write numerous full-length essays and engage in multiple revisions/drafts. Assignments throughout the course are designed to prepare students for the SAT, AP courses and college research skills. The research unit will prepare students for college expectations in this area. There will be summer reading and assignments for this class. In an honors class, the level of in-class discussion and outside work will be more complex and students will be expected to do a great deal of outside reading, writing, independent work, and text analysis. Upon successful completion of this course, students will take the Keystone Exam.

0070 - AP Seminar: English II

Grade – 10, 11, 12

1 Credit

Prerequisite: “B” or Better in English I

This course is part of the AP Capstone Diploma Program from College Board. It’s based on two one-year long courses; AP Seminar and AP Research. Rather than teaching subject specific content, these courses develop student skills in research, analysis, evidence-based arguments, collaboration, writing and presentations.

003 - English III - Required

Grade - 10

1 Credit

Prerequisite: Successful Completion of English II

English III is an integrated course based on American Literature. Components will include the reading and interpretation of literature (novel, short story, essay, poetry, and drama), literary terminology, vocabulary enrichment, speaking activities, research project, and writing that reflects literary readings. The 11th Grade English course is aligned to the PA Core standards for English and Language Arts. As such, students in 11th grade English will be reading literature through a lens that addresses all of the PA Core standards.

0030 - English III – WH

Grade - 11

1 Credit

Prerequisite: Successful Completion of English II and Teacher Recommendation or Successful Completion of English II WH

Honors English III is a rigorous academic program that focuses on higher level thinking skills as well as the PA Core standards. The course’s workload and level of material presented are challenging. The 10th grade honors class includes a study of literary genres and literary devices through a variety of works from American and European authors. The course focuses on writing and presentations as well as critical literary analysis. Students who take this course will write numerous full-length essays and engage in multiple revisions/drafts. Assignments throughout the course are designed to prepare students for the SAT, AP courses and college research skills. The research unit will prepare students for college expectations in this area. There will be summer reading and assignments for this class. In an honors class, the level of in-class discussion and outside work will be more complex and students will be expected to do a great deal of outside reading, writing, independent work, and text analysis.

030 - AP Language and Composition: English III

Grade - 11

1 Credit

Prerequisite: Successful Completion of English II WH Teacher Recommendation

The AP English Language and Composition course is designed to help students become skilled readers of prose written in a variety of rhetorical contexts and to become skilled writers who compose for a variety of purposes. This college-level course provides students with opportunities to write about a variety of subjects and to demonstrate an awareness of audience and purpose. The course will also enable students to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively with mature readers. At the end of the course, all students are required to take the Advanced Placement examination in Language and Composition. There will be summer reading and assignments for this class. ***Summer work is required for this course.***

Completion of AP courses may support the completion of Act 158: Alternative Assessment and Evidence Based Pathways. This course will be offered concurrently with Montgomery County Community College’s English Composition 101 course. Students will be offered the opportunity to earn high school credit for the course in addition to college credit. Students must meet all MCCC and College Board requirements as outlined by the instructor to earn credit.

004 - English IV - Required



Grade - 12

1 Credit

Prerequisite: Successful Completion of English III

English IV is an integrated course based on a chronological survey of British literature with enrichment from literary works in World Literature. Components will include advanced literary terminology, vocabulary development through context, speaking activities, expository writing based on literary study, and a research unit. The 12th Grade English course uses the Holt McDougal British and World Literature textbook which is aligned to the PA Core standards for English and Language Arts. The course, while focused on British Literature and World Literature, also includes a robust focus on writing and vocabulary development with a special emphasis on preparing students for post-secondary education.

0040 - English IV – WH



Grade - 12

1 Credit

Prerequisite: Successful Completion of English III and Teacher Recommendation or Successful Completion of English III WH

English IV Weighted Honors is a demanding, honors level British Literature course. The 12th grade honors class focuses on British and world literature and includes novel study, drama, poetry, and short stories. In the weighted honors course, students will analyze multiple interpretations of a story, drama, or poem (e.g., recorded or live production of a play or recorded novel or poetry), and evaluate how each version interprets the source text. This course increases and enhances writing skill through regular writing, revision, and rewriting. There will be summer reading and assignments for this class. The 12th Grade English WH Course uses the Holt McDougal British and World Literature textbook which is aligned to the PA Core standards for English and Language Arts.

0050 - AP Literature and Composition: English IV



Grade - 12

1 Credit

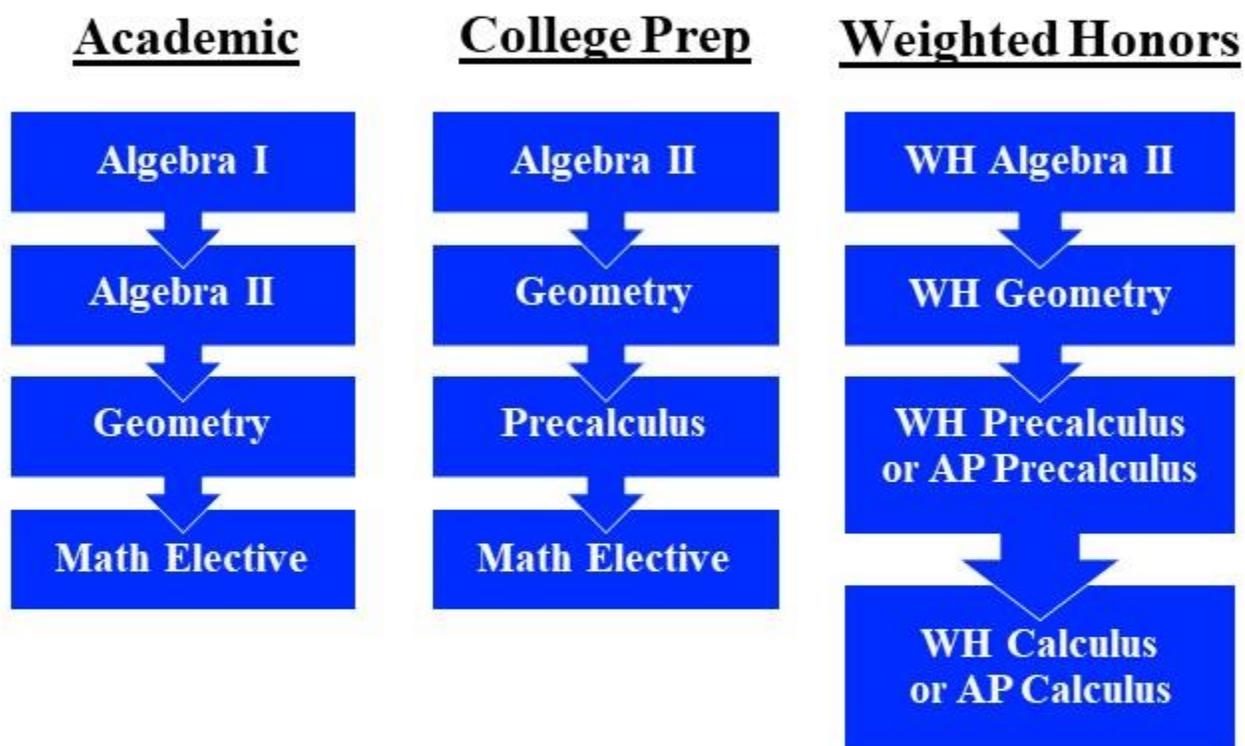
Prerequisite: Successful Completion of English III WH and Teacher Recommendation or Successful Completion of AP Language and Composition and Teacher Recommendation

The AP English Literature and Composition course is a college-level course that engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students should consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. The course includes intensive study of representative works from various genres and periods, concentrating on works of recognized literary merit. The works chosen invite and gratify rereading. At the end of the course, all students are required to take the Advanced Placement examination in Literature and Composition. There will be summer reading and assignments for this class. *Summer work is required for this course.*

Math Course Pathways

2023-2024

SAMPLE



MATHEMATICS

All Mathematic courses are rigorous academic programs that focus on higher level thinking skills and are aligned to PA Core standards.

Calculator Recommendation: It is recommended that every student have a graphing calculator (Texas Instrument TI-83+ or TI-84+) for use at home. Calculators are provided for student use during each math class. In addition, calculators will be available for sign out **ONLY** for courses required.

209 (2097) - Algebra I - Required 1 Credit (2097 – 2 Credits)



This course includes the study of the basic language and concepts of Algebra. In alignment with the PA Core standards, it focuses on topics related to statistics, data analysis, probability, predictions, functions, and graphing. Students will formulate and solve equations and inequalities to model routine, real life scenario problems. In addition, they will learn how to graph a linear function, identify its equation, and work with systems of equations. Upon successful completion of this course, students will take the Keystone Exam.

220 – Geometry - Required 1 Credit



Prerequisite: Successful Completion of Algebra I and Algebra II

This course includes a study of measurement, estimation and algebraic and trigonometric functions. In alignment with the PA Core standards, students will measure and compare angles and make predictions. Students will analyze figures in terms of area, perimeter, volume, symmetry, congruency, and similarity. In addition, they will prove triangles similar or congruent, identify corresponding parts of congruent triangles and use the properties of angles, arcs, chords, tangents, and secants to solve problems involving circles.

2200 - Geometry - WH 1 Credit



Prerequisite: Successful Completion of WH Algebra II or Successful Completion of Algebra II and Teacher Recommendation

This course is an intensive study of the basic properties and relationships of geometric figures. Students will analyze figures in terms of area, perimeter, volume, symmetry, congruency, and similarity. In alignment with the PA Core standards, this course will also include topics of trigonometry. Students will also construct geometric figures and will perform various types of proofs.

215 - Algebra II - Required 1 Credit



Prerequisite: Successful Completion of Algebra I

Algebra II includes extension of those concepts learned in Algebra I and incorporates the study of exponential equations, systems of equations, logarithms, functions, sequences and series, and matrix problems. In alignment with the PA Core standards, students will also learn how to solve linear and quadratic equations both symbolically and graphically. Students who do not score proficient on the Keystone Exam will retake the exam in December of the current school year.

2150 - Algebra II – WH 1 Credit



Prerequisite: Successful Completion of Algebra I or WH Algebra I & Teacher Recommendation

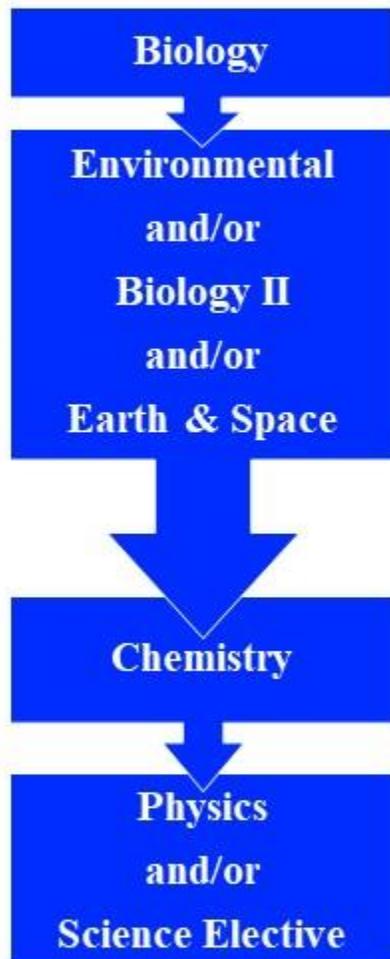
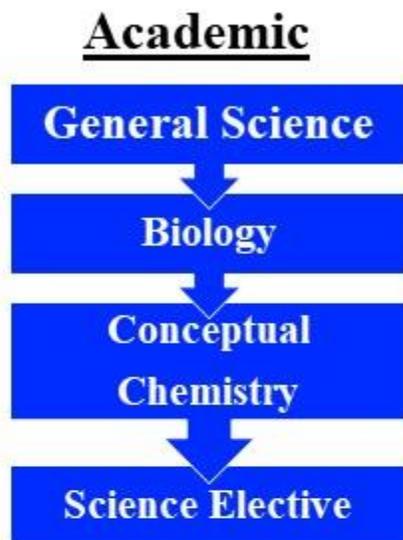
In alignment with the PA Core standards this course involves an intensive study of exponential equations, logarithms, patterns, sequences and series, standard deviation, and trigonometric functions. Students will solve systems of inequalities, linear and exponential equations, and equations of degree greater than two.

Science Course Pathways 2023-2024

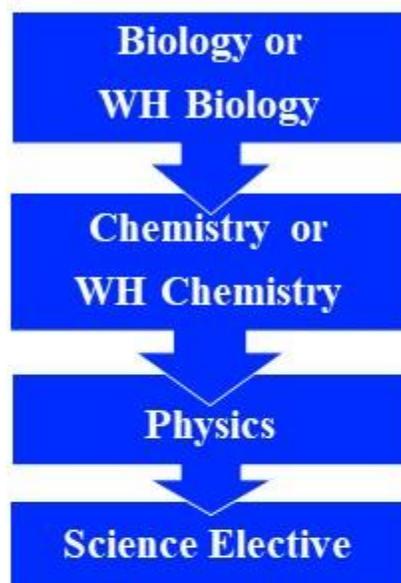
SAMPLE

Keystone

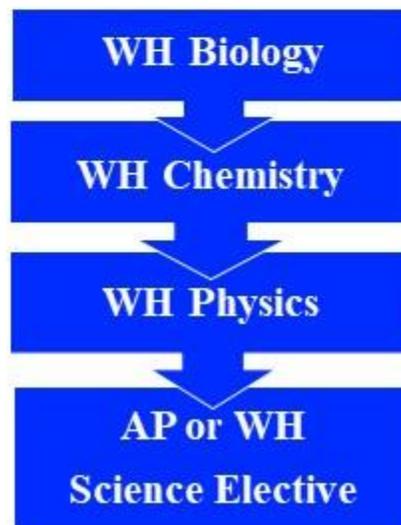
Reinforcement



College Prep



Weighted Honors



SCIENCE

All Science courses are rigorous academic programs that focus on higher level thinking skills and are aligned to PA Core standards.

300 - General Science

Grade - 9

1 Credit

This introductory physical science course is required of all 9th grade students except for those students who are scheduled as 9th graders to take Biology I. Subjects taught throughout the course include metric measurement, matter, (structure of the atom, elements), energy, forces, motion, work, machines, (environmental factors, and environmental cycles). Students will have up to 3 hours per week of out of class work including homework and written lab reports. Major topics addressed in the course include evaluating the appropriateness of research questions and analyzing and explaining scientific facts, principles, theories, and laws.

301 - Biology I - Required



Grade - 9, 10

1 Credit

This introductory course in life science begins with a detailed study of the characteristics of living things and the environment in which they live and progresses to a study of the cell, DNA, genetics, and Linnaean Classification. Appropriate laboratory work is included. The Biology course uses the *Prentice Hall Biology* textbook which includes the Next Generation Common Core standards in Biology as they are currently written. Major topics addressed in the course include comparing and contrasting cellular processes (i.e. photosynthesis) and conducting laboratory experiments to test and validate scientific theories. Upon successful completion of this course, students will take the Keystone Exam.

3010 - Biology I – WH



Grade - 9

1 Credit

This course presents a rigorous and comprehensive examination of the fundamental biological themes including investigative inquiry, ecology and classification, levels of biological organization, cell biology, biochemistry, energy metabolism and nutrition, homeostasis, cell transport, genetics, and biotechnology. All laboratory exercises support these themes and demand proper written communication of scientific method, techniques, manipulation of data, analysis of scientific data, and the use of experimental data and critical thinking to support conclusions. Students need to be highly motivated in science to take this course.

3061 - Conceptual Chemistry - Required



Grades - 10, 11, 12

1 Credit

Prerequisites: Successful Completion of Algebra I and Biology I

This course is designed to help students understand basic chemical principles and gain appropriate lab and measurement skills. Students will develop an understanding of how those concepts and skills are relevant to other courses and their daily lives. Chemical topics covered in the course include the exploration of the Periodic Table, matter and change, states of matter, measurements, atomic theory, bonding, solutions, and acids & bases. The course will use a variety of hands on activities and labs to help with the understanding of abstract concepts.

306 – Chemistry – Required



Grade - 10, 11, 12

1 Credit

Prerequisites: Successful Completion of Biology I or Biology I WH and Algebra II or Geometry (may be taken concurrently) and Proficient on Biology Keystone Exam (10th Grade Only)

This chemistry course is an introduction to chemical principles. A comprehensive examination of the fundamental chemical themes including stoichiometry, properties of gases, liquids, solids and solutions, nomenclature, and scientific measurement are presented. All laboratory exercises support these themes and demand proper written communication of scientific method, techniques, manipulation of data, analysis of scientific data, and the use of experimental data and critical thinking to support conclusions.

3060 - Chemistry – WH 

Grade - 10, 11, 12

1 Credit

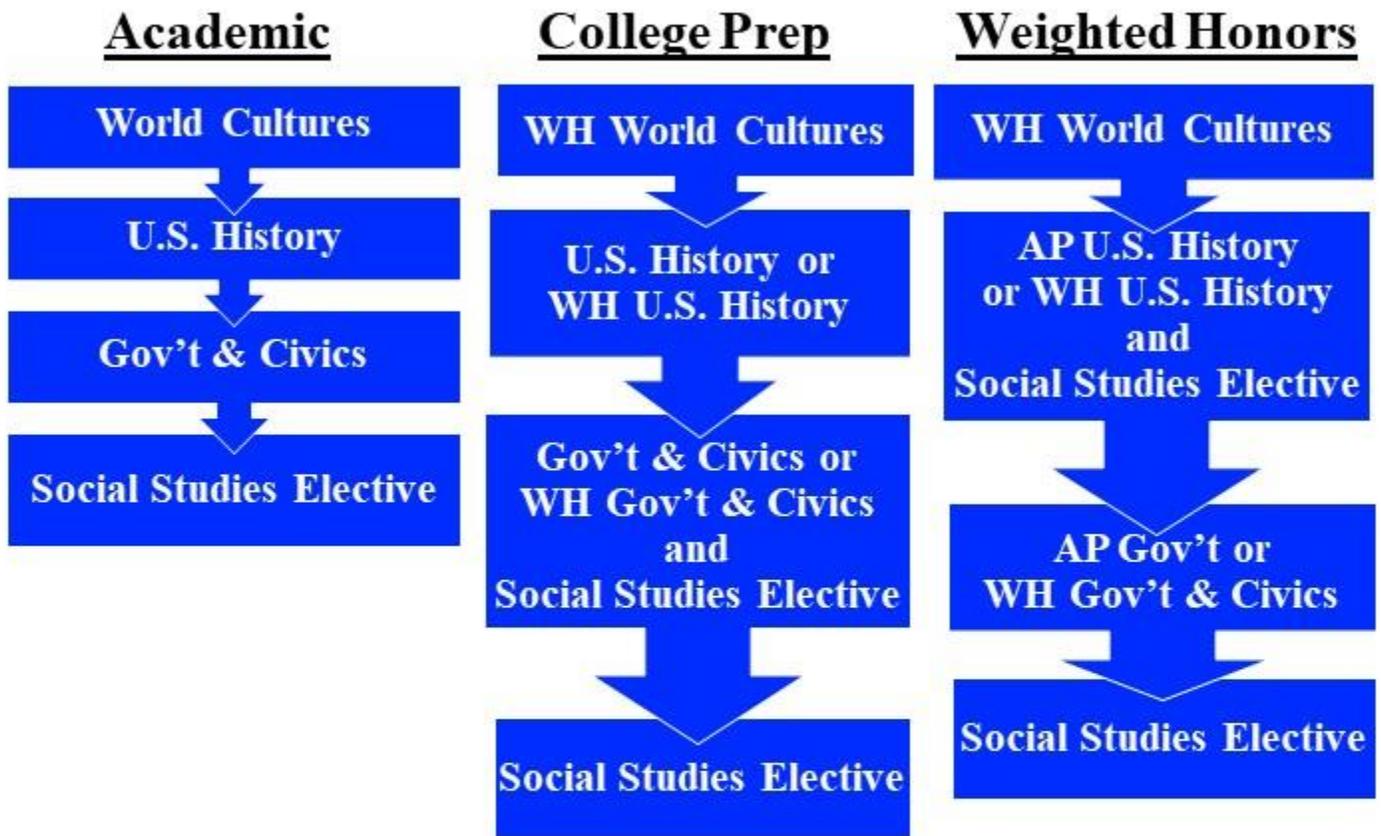
Prerequisites: Successful Completion of Biology I WH with a “B” or Better or Biology I with an “A”, Successful Completion of Algebra II or Geometry and Proficient on Biology Keystone Exam (10th Grade Only)

This chemistry course is designed to prepare students for college-level general chemistry. A rigorous and comprehensive examination of the fundamental chemical themes is presented including the periodic table, atomic theory, chemical bonding, stoichiometry, properties of gases, liquids, solids and solutions, chemical equilibrium, nomenclature, acids and bases, and pH. All laboratory exercises support these themes and demand proper written communication of scientific method, techniques, manipulation of data, analysis of scientific data, and the use of experimental data and critical thinking to support conclusions.

Social Studies Course Pathways

2023-2024

SAMPLE



SOCIAL STUDIES

All Social Studies courses are rigorous academic programs that focus on higher level thinking skills and are aligned to Next Generation Core standards.

102 - World Cultures & Literature – Required

Grade – 9

1 Credit

This survey course examines interactions around the world from both past and present perspectives. Students explore the history of Europe, Africa, Asia and North/South America and the interconnection these regions have in modern day. Students will investigate geography, history, belief systems, political systems, culture and contemporary issues of the different regions in the world through the examination of primary and secondary sources and research skills. Students will read a series of short stories which encapsulate the culture of people worldwide and analyze their global impact. Students will precisely and effectively communicate what has been learned, and then be able to apply learning to new situations. Literacy strategies and skills will be embedded into the World Cultures and Literature course on a daily basis to bolster students' critical reading, writing and thinking skills.

1020 - World Cultures & Literature – WH

Grade -9

1 Credit

Prerequisites: Successful completion of 8th Grade Social Studies

Weighted Honors World Cultures will provide students with the opportunity to develop analytical skills of the various cultures of the world. The course progresses from the emergence of Islam in 600 AD to the Industrial Age. This is a survey course that examines the roots and development of Europe, the Middle East, Africa, the Americas and Asia throughout modern day history. Throughout this course, students will be challenged academically through rigorous and relevant examination of historical events throughout various time periods and their link to contemporary issues. Students will be able to evaluate the interaction and cultural influences throughout the world between cultures. Students will use technology, primary and secondary sources, research skills, simulations, media resources and traditional text to expand their understanding of history. Students will be expected to create meaningful and thoughtful assignments and develop critical thinking skills.

100 - U.S. History – Required

Grade – 10

1 Credit

In this interdisciplinary Social Studies course, students will study the United States from the 1920s to the present. Using traditional approaches, this course presents the political, economic, social, and cultural contributions Americans have made here and abroad.

1000 - U.S. History – WH

Grade – 10

1 Credit

Prerequisites: Successful Completion of World Cultures with a “B” or Better & Teacher Recommendation

This course is specifically designed for college bound students who are highly interested and want an in-depth view of the political, social, and cultural accomplishments of the United States from the 1920's to the present. The course presents the political, economic, social, and cultural contributions Americans have made both in this country and abroad. This course will challenge the creativity of students in the cognitive domain and higher level thinking skills as well as the use of technology.

10000 - AP U.S. History

Grade - 10, 11

1 Credit

Prerequisites: Successful Completion of World Cultures, English I and Teacher Recommendation or Successful Completion of World Cultures WH and English I WH

Advanced Placement United States History is designed to enable students to develop analytical skills and acquire a thorough knowledge of United States History. The approach of the course includes, but is not limited to, the following elements: development of substantial knowledge of social, cultural, political, economic, and military events relevant to the history of the United States; development of assessment and interpretive skills; development of geographic awareness; the development of analytical thinking skills, and the development of communication skills through the writing of coherent, analytical essays. The course is intended to be equivalent to a college level introductory course. Consequently, the course is designed to challenge the student. *Summer work is required for this course.*

105 - Government & Civics – Required

Grade - 11, 12

1 Credit

American Government is a course which emphasizes the rights and responsibilities of citizens and how our government operates in the United States. Students explore the Constitution, its historical developments, and viability over time. Students examine the three branches of government and the processes of the American political system. Students will study voter behavior and citizenship, and the impact constituents have on the political system. It will also examine the relationship among economics, government, and public policy.

1050 - Government & Civics – WH

Grade - 11, 12

1 Credit

Prerequisites: Successful Completion of U.S. History with a “B” or Better & Teacher Recommendation

This course focuses on the political and economic systems of the American Government with an emphasis on the everyday activities of the government and how it tries to solve some of the major political and economic problems facing the country today. Students will learn the structure of the United States government and its origin. Students will examine the U.S. Constitution and apply its principles throughout the course. Each branch of government will be analyzed and their current members evaluated. Students will study all forms of participation in government including political parties, elections, interest groups, and the mass media. Every student will take part in a culminating project requiring them to work with others to develop a campaign.

1090 - AP U.S. Government/Politics

Grade - 11, 12

1 Credit

Prerequisites: Successful Completion of U.S. History with a “B” or Better & Teacher Recommendation

This college level course addresses the nature of the American Political system, its development over the past 200 years, and how it works today. There will be an examination in some detail of the principle processes and institutions through which the political system functions, as well as some of the public policies that these institutions establish and how they are implemented. *Summer work is required for this course.*

HEALTH and PHYSICAL EDUCATION

7052 - Wellness - H/PE – Required

Grade - 9, 10

1 Credit

This course is needed to fulfill the graduation requirement. Students will continue to build a wellness plan through participation in various individual activities, team sports/activities and fitness activities. Students will select various activities to create a wellness plan. Students will also be provided the opportunity to get certification in lifeguarding/CPR/First Aid/AED through the American Red Cross. Students will be assigned a health component that will focus on the development of an individual wellness plan. Each student must complete a presentation outlining their individual wellness plan.

FRESHMAN LITERACY

099 - Literacy for Life

Grade - 9

1 Credit

This course is divided into two parts, financial literacy as well as academic literacy with the goal of providing a sound foundation for years beyond high school. Financial Literacy will focus on topics from budgeting to investing while Academic Literacy will focus on various types of writing, reading strategies, grammar, and research. This course will fill in elective credit.



ELECTIVES

The following courses are electives that can be chosen during the grades indicated in the course descriptions. They are organized according to content area.

ART ELECTIVES

Note: Students wishing to take Studio courses who have not taken Art Major I and/or Art Major II must present evidence of knowledge with a portfolio of their art work.

***Higher level art courses that use specialized, consumable supplies, may require that students pay a small fee. Arrangements can be made to accommodate individual situations.**

600 - Artistry Crafts

Grade - 9, 10

1 Credit

This hands-on course will explore various methods of creating traditional and non-traditional decorative arts with an emphasis on craftsmanship, unique materials, and experimentation. By exploring various cultural techniques and methods, students will have the opportunity to study and create functional and non-functional forms created through non-traditional media.

**Not offered in the 2023-2024 school year.*

601 - Art Major I: Drawing & Painting

Grade - 9, 10, 11, 12

1 Credit

Prerequisite: Art Teacher Recommendation Required. 9th Grade Students May Apply to this Course Only with a Written Recommendation from Their Middle School Art Teacher.

This is a foundation course presenting students with a range of techniques and concepts to develop artistic abilities with a strong focus not only on drawing skills, but also in problem solving. This class is for students interested in continuing with the arts and is a prerequisite for all studio classes. Successful completion of this course is required, and will allow students to advance to the following studio courses directly after completion of this course; Jewelry, Sculpture, Ceramics, Photography and Graphic Design. **For additional studio courses, Art Major II must be completed.**

6020 - Art Major II – WH

Grade - 10, 11, 12

1 Credit

Prerequisite: Successful Completion of Art Major I

This is a continuation of Art Major I with a focus on building and developing students' drawing, painting and design skills. New materials will also be explored to create 2D and 3D artworks. **Successful completion of this course is required to advance to the Portfolio Preparation.**

605 - Photography I

Grade - 10, 11, 12

1 Credit

Prerequisite: Successful Completion of Art Major I

This course encompasses the techniques of film photography and darkroom processing as well as the modern techniques of digital photography and digital editing. Students will gain Adobe Photoshop image editing skills.

60520 - Photography II – WH

Grade – 10, 11, 12

1 Credit

Prerequisite: Completion of Photography

Students will be exposed to all forms of photography so that they may find and expand upon their niche. They will review the basics of film and digital, plan thesis photoshoots, practice, photojournalism, and begin to build a photography portfolio.

60530 - Photography III – WH

Grade – 11, 12

1 Credit

Prerequisite: Completion of Photography and II

Building off skills learned in Photography I and II, students will push the techniques a bit farther by picking a thesis for their photography. Students will plan independent photoshoots with a focus on theme and message. A portfolio will be completed for potential college evaluations as well.

606 - Ceramics

Grade - 10, 11, 12

1 Credit

Prerequisite: Successful completion of Art Major I and Teacher Recommendation

Students will gain a strong Foundation in all basic hand building and throwing techniques working with clay to create coils, slabs, sculptural forms, and the potter's wheel to create functional and non-functional forms. The basics of different clay bodies, glazes and firing techniques will also be studied.

60620 - Ceramics II – WH

Grade – 10, 11, 12

1 Credit

Prerequisite: Completion of Ceramics with a “B” or Better

Students will build on foundations of technical skills of hand-building and wheel throwing with emphasis on conceptual art, individual and group critiques, and research in the area of Ceramic Arts.

607 - 2D Studio: Painting and Printmaking

Grade - 10, 11, 12

1 Credit

Prerequisite: Successful Completion of Art Major I with a “C” or Better

In painting students will be exposed to a variety of painting techniques and media. They will be given an opportunity to express personal creativity through original works of art that exemplify color, design and composition. In printmaking students will strengthen skills with design elements to complete projects such as silk-screening to make t-shirts, block printing, mono-prints and collagraphs.

613 - 3D Studio: Jewelry Making and Sculpture

Grade - 10, 11, 12

1 Credit

Prerequisite: Successful Completion of Art Major I with a “C” or Better

In Jewelry, students will be introduced to various tools and materials used in metal-smithing and soldering processes to make functional art works.

In sculpture students will gain a strong foundation in various media creating both additive and subtractive sculptures using materials such as wire, plaster, wood and recycled materials.

621 - Graphic Design I

Grade - 10, 11, 12

1 Credit

Prerequisite: Successful Completion of Art Major I with a “C” or Better

Students learn the basics of digital design programs; Adobe Photoshop and Illustrator. Students will also gain an understanding for modern trends in the graphic design industry and how to promote personal brand.

6210 - Graphic Design II – WH

Grade – 10, 11, 12

1 Credit

Prerequisite: Successful Completion of Graphic Design I with “B” or higher

Building off skills acquired in Graphic Design I, this course is developed to teach advanced graphic design concepts. With heavy emphasis on computer imaging using the Adobe Creative Suite, students will develop composition/layout skills, packaging design, commercial art, illustrations, and other digital artworks.

6150 - AP Studio Art: 2D Design

Grade - 11, 12

1 Credits

Prerequisite: Successful Completion of Art Major I & II with a “B” or Better

This course is designed for serious art students who have an interest in applying to Arts programs in college. The objective will be to build and document a strong body of work called a portfolio. Development of the artistic process in assorted media is the goal. College application and portfolio review process will be a component of this course. Also, in this course students will practice advanced drawing techniques, including but not limited to, realistic observational drawing, linear perspective, form and space. These skills will then be applied to cartoon and comic illustration and stylistic narrative art. *Summer work is required for this course.*

612 - Community Arts

Grade - 11, 12

1 Credit

This course is focused on working collaboratively to create public works of art. Students will learn about developing concepts, image design and execution of artworks developed for the community. Public art in both 2 dimensional and 3 dimensional media will be explored in this course.

BUSINESS/FINANCE ELECTIVES

501 - Introduction to Business

Grade - 9, 10

1 Credit

In a dynamic society where change is inevitable, students must learn to be wise consumers, valued workers, and responsible citizens. This course helps to develop management techniques, marketing concepts, and economic responsibilities. In addition, the course covers such topics as business ownership, investments, recordkeeping and banking. This course is an introductory course for all students who are interested in exploring business.

5010 - Introduction to Business – WH

Grade - 9, 10

1 Credit

In this course students will analyze foundations of the American economy. This course is designed to introduce the fundamentals of business, microeconomics, entrepreneurship, marketing, human resources, financial management policy and accounting. Additional focus will be paid to business ethics, law and career planning. Throughout the course, students will create portions of a unique business plan. Additional learning will be enhanced through reading assignments and related projects.

510 - Career Technology I

Grade - 9, 10, 11

511 - Career Technology II

Grade - 10, 11, 12

1 Credit

Prerequisite for Career Technology II: Successful Completion of Career Technology I

What does it take to survive in today's world? How can you increase your net worth? What personal and technical skills and abilities will you need as you go off to college or out to work? Learn the answer to these and other important questions by enrolling in Career Technology. This class will help develop your personal and technical proficiencies essential for a successful future. Learn to use resource materials, budget techniques, balance a checkbook, and record management. Increase your technical proficiency, brush up on computer applications: Internet, word processing, database, spreadsheet and presentation programs. Learn the skills and applications of critical thinking, decision making, and problem solving necessary in your life. Learn how to choose a satisfying and rewarding career, make the right selections based on your aptitudes, personality, and aspirations. Prepare now to live the life you imagined! Students are provided with more than sixty career adventures in Career Technology to prepare for college and/or employment opportunities in our global economy. Individualized instructional areas include business, marketing, communication, service and technology.

521 - Advanced Marketing (DECA) – WH

Grade - 10, 11, 12

1 Credit

Prerequisite: DECA Advisor Recommendation

This course is designed to develop an understanding of marketing processes and the specific skills in selling, advertising, display, business record keeping, merchandising and human relations. Included are basic economics, marketing processes, consumer motivation, techniques of selling, business systems, customer services, business communication, interpersonal relationships and sales promotion activities in the DECA chapter are used to develop leadership abilities. To receive honors credit, students must participate in DECA's co-curricular competitions and complete a DECA competition project.

522 - Sports/Entertainment Marketing

Grade - 11, 12

1 Credit

This course will discuss why fans and advertisers spend billions of dollars each year on recreational entertainment and related products and services. We will examine and discuss how to organize and develop a Marketing Plan, with emphasis on various strategies that target specific consumers in the field of Sports and Entertainment.

523 - Introduction to Marketing

Grade - 9, 10

1 Credit

Students will investigate topics in advertising, communication, consumer behavior, sports and entertainment marketing, and fashion marketing while learning to promote their ideas, products, and themselves.

5230 - Introduction to Marketing – WH

Grade - 9, 10

1 Credit

Students gain an understanding of the importance of marketing in today's society. They develop skills related to interpersonal communication, self-presentation, economics, marketing, sales, employability, career discovery, and ethical decision-making. This course reinforces mathematics, science, English, and history Standards of Learning. Computer/technology applications and DECA activities support this course. DECA, the co-curricular student organization, offers opportunities in leadership, community, and competitive events

524 – Entrepreneurship

Grade - 11, 12

1 Credit

Students will investigate issues in management, business law, and finance. They will develop their own personal business plan and have the opportunity to work with business people from the community who offer real world experience and insight.

525 - Career Exploration

Grade – 9

1 Credit

Career Exploration focuses on the analysis of current career trends, related technology, workforce diversity, and ways to thrive in a global marketplace. Students' individual needs are addressed as careers are examined that fit each individuals' talent and passions. Future career success is promoted by providing students with current and projected career information and building skills in vital areas such as networking, communications, teamwork, problem solving and public speaking.

526 - Personal Finance

Grade - 11, 12

1 Credit

Students will gain an understanding of their consumer rights/responsibilities and basics of credit and the law. Topics will include checking and savings accounts, investing, real estate and risk management pertaining to vehicle, property, life, and health insurance.

527 - Accounting Principles

Grade - 10, 11, 12

1 Credit

Prerequisite: Successful Completion of Algebra I with a “C” or Better

Whether you plan to enter the workforce or continue onto college, this course is a must for those who are interested in or plan to major in business. This one-year introductory financial accounting course will provide a basic knowledge for keeping financial records for both a service and merchandising business. Other areas to be covered include banking, payroll, and accounting for personal use. Automated accounting is taught using industry's premier accounting software, Peachtree and Microsoft's Excel Spreadsheet application. The concepts covered in this year-long course are equivalent to a first semester of college accounting, which is required by all business majors. This course satisfies the requirement for a fourth-year high school mathematics course.

528 - Business Law

Grade - 11, 12

1 Credit

This course provides an understanding of the basic principles of law through the exploration of contracts, ethics, and court procedures. Students will be able to classify criminal and civil law and learn about legal rights and legal duties. Business Law should be taken by students with an interest in law and/or any managerial business field.

529 - Hospitality and Restaurant Marketing

Grade - 10, 11, 12

1 Credit

This course covers the growth and progress of the hospitality and restaurant industries. This course provides an overview of the various challenges and responsibilities encountered in managing a food and beverage operation. Topics include planning, administration, organization, accounting, marketing and human resources from an integrated managerial viewpoint. Upon completion, students should be able to demonstrate an understanding of the background, context, and career opportunities that exist in the hospitality and restaurant industries.

989 – Cooperative Work Study Program (Co-op)

Grade - 11, 12

Variable Credit

Co-op offers the students an opportunity to receive high school credit for work experience. The job is considered a class, and the employer is the on-the-job teacher. Students can receive assistance finding a job through the co-op coordinator or can continue working at an approved workstation. The student will receive a grade and credit based on work performance and work-related assignments. The co-op coordinator will assist with job placement for students not currently working. See your counselor for specific details and application information.

ENGINEERING and TECHNOLOGY ELECTIVES

The Engineering path in the Project Lead the Way (PLTW) national engineering program emphasizes critical thinking, creativity, innovation and real-world problem solving. The hands-on learning engages students on multiple levels, exposes them to areas of study that they may not otherwise pursue, and provides them with a foundation and proven path to post-secondary training and career success in STEM-related fields. To enroll in PLTW courses students should have interests in any of the following; Computers, Science, Math and Art

There is also a more traditional hands-on path that prepares students for Central Montgomery Technical High School and gaining basic knowledge of tool use and safety through projects in wood and the creation of models in various formats. -

650 - Foundations of Technology (Not in PLTW)

Grade – 9

1 Credit

Students will explore different areas of technology throughout history and the present day. Students will have opportunities to learn and research many important technologies, as well as experience hands on activities in graphics, construction and carpentry, casting and molding, drafting, and modeling. Students will also learn proper and safe use of hand tools, efficient use of materials and how to read plans.

656 - PLTW - Introduction to Engineering Design – WH

Grade - 9, 10, 11, 12

1 Credit

Prerequisite: Successful Completion of Algebra I`

A pre-engineering foundation course that is activity and project based. IED is based on learning engineering design principles and concepts through sketching, computer modeling and hands-on lab experiences. All learning concepts are founded in algebra, geometry and physics. Projects include puzzle cube project, completing a toy train that is animated and moves on tracks and reverse engineering a toy car. Students with computer aptitude and that enjoy hands on learning should apply.

657 - PLTW - Civil Engineering and Architecture – WH

Grade - 10, 11, 12

1 Credit

Prerequisite: Successful Completion of Introduction to Engineering Design

Students learn about various aspects of civil engineering and architecture and apply their knowledge to the design and development of residential and commercial properties and structures. In addition, students use 3D design software to design and document solutions for major course projects. Students communicate and present solutions to their peers and members of a professional community of engineers and architects.

658 - PLTW - Digital Electronics – WH

Grade - 10, 11, 12

1 Credit

Prerequisites: Successful Completion of Introduction to Engineering Design

A core course of study in the PLTW program, this introductory pre-engineering course develops students' logical thinking skills by solving problems and designing control systems. Students will gain a better understanding of the digital circuits through experiences in binary math which is used in the coding of apps and gaming systems, the use of gates and IC chips and how to properly modulate the power through resistors, capacitors, timers and other electronic circuitry.

659 - PLTW - Principles of Engineering – WH

Grade - 10, 11, 12

1 Credit

Prerequisites: Successful Completion of Intro to Engineering

A continuation of the pre-engineering path based on learning engineering principles and concepts through computer modeling and hands-on lab experiences.

652 - PLTW - Engineering Design/Development – WH

Grade – 12

1 Credit

Prerequisite: Successful Completion of 3 Prior PLTW Courses

Engineering Design/Development encompasses the other courses with a curriculum designed to allow the student to learn how to solve technical problems using the same methodologies scientists and engineers use on a daily basis (the engineering design process). Students will choose a problem they determine with an existing product, they will research solutions, determine the best solution design, test and present their findings.

653 - Structural Engineering (Not in PLTW)

Grade - 10, 11, 12

1 Credit

This course is project and activity based, it focuses on structures and the forces that act on them. It is divided into four areas (bridges, buildings and towers, homes, and transportation. Each area is studied through research and a hands-on approach through the building of models. Students will study the history, evolution of constructing methods, materials and then build scale models.

654 - Wood Technologies (Not in PLTW)

Grade – 10, 11, 12

1 Credit

Prerequisite: Successful Completion of Foundations of Technology

This course is project and research based. Students will learn proper and safe use of hand and power tools. They will learn to efficiently plan and maximize use of materials. They will demonstrate understanding of different building techniques through the building of class projects and the following of set plans. Students will learn to distinguish various types of wood through their individual characteristics and determine why various types are better for different projects.

655 – PLTW - Computer Science – WH

Grade - 9, 10, 11, 12

1 Credit

Prerequisite: Successful Completion of Algebra I

This course is designed to offer an introduction to computer science. Students will learn the basics of computer programming along with the basics of computer science. The material emphasizes computational thinking and helps develop the ability to solve complex problems. This course covers the basic building blocks of programming along with other central elements of computer science. It gives a foundation in the tools used in computer science and prepares students for further study in computer science.

ENGLISH and COMMUNICATION ELECTIVES

0060 - Problems in Philosophy – WH

Grade - 11, 12

1 Credit

Prerequisite: Successful Completion of English II or English III with a “B” or Better

Problems in Philosophy is a year-long course that looks at the history of ideas from a subject rather than chronological approach. The course covers important but more independent philosophers including Maimonides, Spinoza, Nietzsche and Rawls. The course approaches major issues in academia and society including issues in philosophy of religion, philosophy of art, philosophy of mind and contemporary questions discussed by philosophy including Bioethics, economic ethics, technological advancement, and political justice. Students encounter these questions with support of primary source reading, podcasts, literature, film and art. *This is a discussion class focusing on reading, conversation and writing in the standard seminar-style college format.*

012 - Newspaper Editing

Grade - 11, 12

1 Credit

Prerequisite: Successful Completion of School Publications II WH Course with a “B” or Better

This course is designed for members of the NAHS Wingspan editorial staff who do not want to continue writing directly for the newspaper but would like to remain committed to their editorial responsibilities. Students may take this course in lieu of 21st Century Journalism WH and/or Advanced Journalism WH.

013 (770) - School Publications – WH

Grade - 9, 10, 11, 12

1 Credit

Prerequisite: Teacher Recommendation from Previous Year’s English Teacher is Needed

The School Publications I course is the first step to earning staff membership with the school’s newspaper, The Wingspan. The course will include law and ethics, as well as an introduction to news literacy, content planning, interview tactics, various writing techniques, critical proofing (editing), and marketing. During the course students will be expected to have published an online profile through The Wingspan site (www.nahswingspan.com), acquire sponsorships, participate in content building with editors and other staff members, and publish at least 8 stories in The Wingspan (online newspaper). ***This class is taught in conjunction with Creative Writing I WH.**

0131 (771) - School Publications II – WH

Grade - 10, 11, 12

1 Credit

Prerequisite: Successful Completion of School Publications WH with a “B” or Better

Students will continue and deepen their study of news media in the area of ethics, as well as news literacy, content planning, interview tactics, various writing techniques, critical proofing (editing), and marketing in print media. In particular, School Publications II students will learn and practice the structure and content of feature, column, editorial and sports writing, as well as compose polls, profiles, briefs, and reviews. Students will also examine current trends in advertising and circulation with specific sales and marketing goals. During the course students will be expected to update their online profiles through The Wingspan site (www.nahswingspan.com), acquire sponsorships, participate in content building with editors and other staff members, and publish at least eight stories in The Wingspan (online newspaper or hard copy).

***Students in this course are permitted to hold “editor” positions with The Wingspan**

****This class is taught in conjunction with Creative Writing II WH**

0132 (772) - 21st Century Journalism – WH

Grade - 11, 12

1 Credit

Prerequisite: Successful Completion of School Publications II WH Course with a “B” or Better

Students will continue and deepen their study of media in the area of ethics. School Publications III students will draw on skills learned in School Publications I and II to practice the structure and content of feature, column, editorial and sports writing, as well as compose polls, profiles, briefs, and reviews. Students will also work to develop 21st century media literacy, analyzing how online media has impacted the way news is reported and received by the American public. Students will be responsible for organizing and coaching the marketing and sales teams within The Wingspan organization and establishing specific sales and marketing goals. During the course students will be expected to update their online profiles through The Wingspan site (www.nahswingspan.com), acquire sponsorships, participate in content building with editors and other staff members, and publish at least eight stories in The Wingspan (online newspaper or hard copy).

***Students in this course are required to hold “editor” positions with The Wingspan**

****This class is taught in conjunction with Creative Writing III WH**

0133 (773) - Advanced Journalism – WH

Grade – 12

1 Credit

Prerequisite: Successful Completion of 21st Century Journalism WH Course with a “B” or Better

The Advanced Journalism course is designed to be a practicum for students. It will include study and practice in the areas of multi-platform journalism, scoop building as well as management of staff, timeline, budget, and product management. During the course students will be expected to update their online profiles through The Wingspan site (www.nahswingspan.com), acquire sponsorships, participate in content building with editors and other staff members, assume a leadership or mentor roll to less-experienced staff and publish at least eight stories in The Wingspan (online newspaper or hard copy). Students in the course will work as a team to cultivate ideas of the staff and student body to produce publications that are reflective of the Norristown Area High School experience.

***Students in this course are required to hold “editor” positions with The Wingspan**

****This class is taught in conjunction with Adv. Creative Writing WH**

026 (770) - Creative Writing I – WH

Grade - 9, 10, 11, 12

1 Credit

Creative Writing I WH is a course designed to introduce students to the three major genres of creative writing: fiction, creative nonfiction, and poetry. Students will learn to read each form of writing critically as a writer, compose their own pieces, and provide constructive feedback to their peers. Students will also learn literary techniques and skills to improve their own work. Expressive writing that shows originality, creativity, and thought will be emphasized. Students will also be expected to submit their work to The Scribbler, Norristown’s published literary magazine.

***This class is taught in conjunction with School Publications WH**

0261 (771) - Creative Writing II – WH

Grade - 10, 11, 12

1 Credit

Prerequisite: Successful Completion of Creative Writing I WH Course with a “B” or Better

Creative Writing II WH expands upon the work students do in Creative Writing I within the three major genres of creative writing. Students will further discuss published works that model compositional and literary techniques taught throughout the course. Students will begin to focus on elements such as point of view, sensory details, precise word choice, and complex characterization. Students will continue to participate in workshops and provide constructive feedback to their peers. Students will also be expected to submit their work to The Scribbler, Norristown’s published literary magazine.

***This class is taught in conjunction with School Publications WH**

0262 (772) - Creative Writing III – WH

Grade - 11, 12

1 Credit

Prerequisite: Successful Completion of Creative Writing II WH Course with a “B” or Better

Creative Writing II expands upon the work students do in Creative Writing I within the three major genres of creative writing. Students will further discuss published works that model compositional and literary techniques taught throughout the course. Students will begin to focus on elements such as point of view, sensory details, precise word choice, and complex characterization. Students will continue to participate in workshops and provide constructive feedback to their peers. Students will also be expected to submit their work to The Scribbler, Norristown’s published literary magazine.

***This class is taught in conjunction with 21st Century Journalism WH**

0263 (773) - Advanced Creative Writing – WH

Grade – 12

1 Credit

Prerequisite: Successful Completion of Creative Writing III WH Course with a “B” or Better

Advanced Creative Writing is a practicum for students who have successfully completed Creative Writing I, II, and III. Students who take this course will be composing a 40-page manuscript in the genre of their choice throughout the year. This work could either be a novella, collection of linked short stories, collection of essays, or poetry chapbook. Students will continue to participate in workshops and provide constructive feedback to their peers. Students will also be expected to submit their work to The Scribbler, Norristown’s published literary magazine.

***This class is taught in conjunction with Advanced Journalism WH**

025 - Feminist Literary Studies

Grade - 9, 10, 11, 12

1 Credit

The course introduces students to major theories, concepts, and debates of feminist literary studies. The readings will be a blend of literary (fiction and nonfiction) as well as theoretical texts. The survey of selected feminist literary theories seeks to provide an overview of those theories that have crucially changed the way we interpret literature in relation to gender. Most of the readings will cover the second half of the twentieth century. Since theory and fiction should be always read in conversation, the theoretical framework will be supplemented by fictional texts that are likewise considered as significant landmarks in literature by women.

044 - Library Science

Grade – 12

1 Credit

Prerequisite: Librarian Recommendation

In this elective, students will learn all aspects of working in a library setting: library skills such as shelving, book & magazine processing, cataloging, develop research skills while assisting library patrons, clerical skills, and work on interpersonal skills. Students will also assist in scheduling and distribution of audio-visual materials.

028 - SAT Prep

Grade - 10, 11

1 Credit

This SAT prep class is focused on helping students prepare for the Critical Reading, Writing, and Mathematics portions of the SAT. Throughout the semester-long course, students will be taking practice tests, learning new vocabulary, learning grammar rules they will encounter on the SAT, developing critical reading comprehension skills, and learning mathematics concepts vital to SAT success. Special emphasis will be placed on teaching test taking strategies and developing the testing stamina so vital to a successful performance on the SAT. Students will take many practice tests throughout the semester and instructors will review these tests with students after they are taken. Students must have passed Algebra 1 or Algebra 1 B. *Completion of this course may support the completion of Act 158: Alternate Assessment.*

045 - Video Production

Grade - 10, 11, 12

1 Credit

Prerequisite: Permission from Telecommunications Teacher

This course emphasizes basic handling and operation of television equipment and the various roles of video production, including in-studio and on-location video-taping of school district programs and post production. The course requires students to produce their own programming. Students will also record, edit, and complete programs for various county and municipal groups requiring responsible shooting time after school hours. Students will also be familiarized with the power of the media and how production design influences the impact of video. Admission to course is by written permission of the Telecommunications teacher; see Mr. Walker in the Communications Center, room 357. *Attendance at 3-5 school activities outside the regular school day for production is required.*

046 - Video Production II

Grade -10, 11, 12

1 Credit

Prerequisite: Permission from Telecommunications Teacher

Video Production II: Students in Video Production II will enhance their basic communications skills. These students will focus on directing and segment editing for NASDtv programming as well as learning and practicing the role of producer for class productions. The students will perform advanced editing, graphic animations, sound editing and color correction techniques. The course retains its practical focus offering second year students additional responsibilities, additional technologies and additional opportunities for independent video creation. Admission to course is by written permission of the Telecommunications teacher; see Mr. Walker in the Communications Center, room 357. *Attendance at 3-5 school activities outside the regular school day for production is required.*

0460 - Screen Writing and Film Study – WH

Grade - 10, 11, 12

1 Credit

Prerequisite: “C” or Better in English I, II or III with Parent Permission and Student Signature Form

Students will study film as art and literature; examine elements of plot, setting, style, and point-of-view; investigate how and what ideas, values and concepts are connected through film; and combine a historical survey of motion pictures with a study of genres and theme. Additionally, students will also create our own scenes and read, write and, discuss the craft and conventions of professional screen writing. Each member of the class will be required to develop his or her own movie project, review their peers’ work, and have an original project critiqued.

0070 - AP Seminar

Grade – 10, 11, 12

1 Credit

Prerequisite: “B” or Better in English I

This course is part of the AP Capstone Diploma Program from College Board. It’s based on two one-year long courses; AP Seminar and AP Research. Rather than teaching subject specific content, these courses develop student skills in research, analysis, evidence-based arguments, collaboration, writing and presentations.

0080 - AP Research

Grade - 11, 12

1 Credit

Prerequisite: “B” or Better in AP Language and Composition or AP Seminar

In AP Research, you’ll explore various research methods and complete an independent research project. Your project can build on a topic, problem, or issue you covered in AP Seminar or on a brand new topic of your own choosing. At the end of the project, you’ll submit your academic paper and present and defend your research findings. These components contribute to the overall AP Research score. There is no end-of-course exam.

1010 - Discussions Literature/Philosophy – WH

Grade - 11, 12

1 Credit

Prerequisite: Successful Completion of English II or English III with a “B” or Better

This course will enrich students using works of literature and philosophy in areas ranging from war poetry to Dadaism, from metaphysics to issues of citizenship. The material read for class will be used to support discussions of contemporary philosophic ideas and classic literary movements to develop critical thinking, cultural awareness, and personal academic responsibility. Using the Socratic Method, project based assessment and written assignments, students will reflect on the literary ideas and their philosophic roots. This is an intensive reading and discussion course with a strong writing component, both critical and creative. **Not offered 2023-2024 school year.*

HEALTH AND PHYSICAL EDUCATION ELECTIVES

7054 - Advanced Physical Education

Grade - 11, 12

1 Credit

Prerequisite: Successful Completion of Wellness & Teacher Recommendation

This course is designed for students who have a strong interest in physical education, a competitive nature and /or interested in learning some non-traditional sports as well as their history and theory. Students will be exposed to classroom-style instruction in addition to activity, and will explore topics not covered in the traditional PE program including planning activities and learning techniques to teach others (recreation, camps). **Note: this course is an elective and does NOT satisfy the PE requirements.*

7055 - Life Fitness & Recreation

Grade - 11, 12

1 Credit

This course includes classroom exploration of relationships between diet, exercise, proper nutrition, and goal setting in regard to performance. Physical education games emphasizing cardiovascular conditioning as well as performance in the fitness center and weight room will be emphasized. Activities will be geared toward weight control, muscle toning, and cardiovascular improvement including fitness walking, jogging, running, biking, lifetime activities and recreational games. **Note: this course is an elective and does NOT satisfy the PE requirements.*

7058 - Competitive Team Games

Grade - 10, 11, 12

1 Credit

Prerequisite: Successful Completion of Wellness

In the interest of enhancing physical fitness and athletic skills, the Competitive Team Games course will develop student interest in sports, lifetime fitness and the competitive spirit that is inherent in all of us. Basic motor skills and knowledge of sports concepts are important tools in the development and continuation of a healthy attitude and lifetime fitness. Students in this course will participate vigorously in various games as an integral part of a team, implement strategy of various games through teamwork, display good sportsmanship, and develop athletic skills through active participation in competition and practice. The following sports and skills may be covered during the semester: hockey, handball, volleyball, basketball, football, soccer, and various other sports. **Note: this course is an elective and does NOT satisfy the PE requirements.*

7057 - Lifeguarding

Grade - 11, 12

1 Credits

Prerequisite: Successful Completion of Wellness

This semester course is designed for students who are interested in becoming American Red Cross Lifeguard certified. Students will complete the prescribed ARC Lifeguard course consisting of certification in First Aid, CPR, AED as well as Water Rescue. **Note: this course is an elective and does NOT satisfy the PE requirements.*

JUNIOR ROTC

9291 - Junior ROTC: LET I

Grade - 9, 10, 11, 12

1 Credit

Junior ROTC Leadership Education & Training (LET 1) is designed to teach students the value of citizenship, leadership, service to the community, personal responsibility, and a sense of accomplishment while instilling in them self-esteem, teamwork, and self-discipline. Its focus is reflected in its mission statement, "To motivate young people to be better citizens." It prepares high school students for responsible leadership roles while making them aware of their rights, responsibilities, and privileges as American citizens. There are six core blocks of instruction including Character and Leadership Development; Leadership Theory and Application; Foundations for Success; Wellness, Fitness, and First Aid; Geography and Earth Science; and Citizenship and American History. Junior ROTC is not a recruitment tool. Its focus is on developing young people and orienting them positively in preparation for whatever role in life they might choose. The levels of responsibility for LET II, LET III, and LET IV students (2nd, 3rd, and 4th year cadets respectively) increases with each additional year in the program.

9292 - Junior ROTC: LET II

Grade - 10, 11, 12

1 Credit

Prerequisite: Successful Completion of LET I (9291)

LET II cadets are placed into entry level leadership positions responsible for training and induction the first year LET Is. Their curriculum focuses on Wellness, Fitness and First Aid, Geography and Earth Science, and Physical Fitness.

9293 - Junior ROTC: LET III

Grade - 11, 12

1 Credit

Prerequisite: Successful Completion of LET I (9291) & LET II (9292)

LET III cadets are mid-level leaders responsible for commanding the companies in the battalion. Advanced levels of leadership training and greater leadership opportunities are the primary focus for third year cadets. Their curriculum focuses on Leadership Theory Application, Foundations for Success, Wellness Fitness and First Aid, Financial Planning, and Community Service.

9294 - Junior ROTC: LET IV

Grade – 12

1 Credit

Prerequisite: Successful Completion of LET I (9291), LET II (9292) & LET III (9293)

The LET IV cadets command the battalion and hold the key staff functions of Personnel, Logistics, and Operations. The battalion Service Learning Project is planned and executed by LET IVs. Their curriculum focuses on Leadership Theory and Application, citizenship and American History, and Community Service. Earning the minimum score required to gain admittance to a branch of the armed services in the year the student graduates on the Armed Services Vocational Aptitude Battery (ASVAB) may support the completion of Act 158: Graduation Pathway 3.

MATHEMATICS ELECTIVES

All Mathematic courses are rigorous academic programs that focus on higher level thinking skills and are aligned to PA Core standards.

225 - Precalculus

1 Credit

Prerequisites: Successful Completion of Algebra II, Geometry and Teacher Recommendation

This course is recommended for those students who plan to continue the study of mathematics beyond high school. This course includes the study of the algebra of polynomial, absolute value, exponential, logarithmic, trigonometric, and other functions. It also includes the study of triangle trigonometry and the unit circle. **A graphing calculator is required for home use.**

2240 - Precalculus – WH

1 Credit

Prerequisites: Successful Completion of Algebra II, Geometry and Teacher Recommendation or Successful Completion of WH Algebra II and WH Geometry

This course is offered as a preparation for the Advanced Placement Calculus (AB) class or Calculus I in college. Students study polynomial and rational functions, logarithmic and exponential functions, and trigonometric functions as well as limits and derivatives. Students work in groups to solve real world problems. **A graphing calculator is required for home use.**

22400 – AP Precalculus

1 Credit

Prerequisite: Successful Completion of WH Algebra 2, WH Geometry and Teacher Recommendation

The AP Precalculus class is designed to cover what students study during a college precalculus class. The curriculum has been designed by the College Board through consultation with teachers and college professors from across the nation. Students examine Polynomial and Rational Functions, Exponential and Logarithmic Functions, Trigonometric and Polar Functions, and Functions involving Parameters, Vectors, and Matrices. Students are required to take the AP Precalculus Advanced Placement examination. **A graphing calculator is required for home use. Summer work is required for this course. Completion of AP courses may support the completion of Act 158: Alternative Assessment and Evidence Based Pathways.**

2255 - Calculus – WH

1 Credit

Prerequisite: Successful Completion of Precalculus and Teacher Recommendation or Successful Completion of Precalculus WH

This class provides students with the opportunity to study and experiment with calculus and analysis. Students work in a hands-on manner to discover some of the basic ideas used in calculus today. Students begin the process of studying calculus to better prepare them for the college courses they will take in the future. Although this is not an AP class, it prepares students to transition into the college level class of their choice. The students complete projects and experiment with real data. **A graphing calculator is required for home use.**

2250 - AP Calculus AB

1 Credit

Prerequisite: Successful Completion of Precalculus WH and Teacher Recommendation

The AB Calculus class is designed to cover what students study during a college calculus class. The curriculum has been designed by the College Board through consultation with teachers and college professors from across the nation. Students review functions and students examine limits, derivatives and their applications, and integrals and their applications. Students are required to take the Calculus AB Advanced Placement examination. **A graphing calculator is required for home use. Summer work is required for this course. Completion of AP courses may support the completion of Act 158: Alternative Assessment and Evidence Based Pathways.**

22500 - AP Calculus BC

1 Credit

Prerequisite: Successful Completion of Calculus WH or AP Calculus AB and Teacher Recommendation

Calculus BC is a course in single-variable calculus that includes all the topics of Calculus AB (techniques and applications of the derivative, techniques and applications of the definite integral, and the Fundamental Theorem of Calculus) plus additional topics in differential and integral calculus (including parametric, polar, and vector functions) and series. It is equivalent to at least a year of calculus at most colleges and universities. Algebraic, numerical, and graphical representations are emphasized throughout the course. Students enrolled in this course are required to take the Calculus BC Advancement Placement examination. **A graphing calculator is required for home use. Summer work is required for this course. Completion of AP courses may support the completion of Act 158: Alternative Assessment and Evidence Based Pathways.**

2265 – Statistics

Grade – 10, 11, 12

1 Credit

Prerequisite: Successful Completion of Algebra I

This course provides students with the opportunity to study and experiment with statistics and data analysis. Students look at the way statistics are used in the work world and how statistics can be manipulated in order to mislead. Students develop awareness of these misuses in order to make them better consumers. Students work in a hands-on manner to discover some of the basic ideas used in statistics today. Students complete statistical research projects and experiment with real data. **A graphing calculator is required for home use.**

2260 - AP Statistics

Grade - 9, 10, 11, 12

1 Credit

Prerequisite: Successful Completion of Algebra I and Geometry

AP Statistics provides students with the opportunity to explore data and determine how the results from those data can be applied. The course is designed for college-bound students, whether they plan to major in a mathematics field or not. The four themes studied in AP Statistics are exploring data, planning a study, anticipating patterns, and statistical inference. Students are required to take the AP Statistics examination. A graphing calculator is required for home use. Summer work is required for this course. ***Completion of AP courses may support the completion of Act 158: Alternative Assessment and Evidence Based Pathways.***

231 - Business Math

Grade - 11, 12

1 Credit

Prerequisite: Successful Completion of Algebra I and Algebra II

This course develops thinking skills through problem-solving applications and simulations on topics such as federal and state taxes, banking procedures, GNP, insurance, investments, mortgages, and automobile loans. Computerized spreadsheet programs and calculators will be an integral part of this mathematical course.

237 - Survey of Math

Grade - 11, 12

1 Credit

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

This course is designed to prepare students for college-level mathematics courses. This course provides an overview of more abstract mathematical concepts and real-world situations. Topics include inductive and deductive reasoning, problem-solving strategies, set theory including 2- and 3-set Venn diagrams, logic, truth tables, and statistics with application of measures of central tendency and dispersion to various sets of data. Also, discrete mathematics topics will be explored including graph theory, probability and odds.

6550 - AP Computer Science

Grade - 10, 11, 12

1 Credit

Prerequisite: Successful Completion of Algebra I

This course is designed to be equivalent to a first semester introductory college computing course. In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course is unique in its focus on fostering student creativity. Students are encouraged to apply creative processes when developing computational artifacts and to think creativity while using computer software and other technology to explore questions that interest them. They will also develop effective communication and collaboration skills, working individually and collaboratively to solve problems, and discussing and writing about the importance of these problems and the impacts to their community, society, and the world. ***Summer work is required for this course. Completion of AP courses may support the completion of Act 158: Alternative Assessment and Evidence Based Pathways.***

MUSIC ELECTIVES

6241 - Choir

Grade - 9, 10, 11, 12

1 Credit

This introductory choir is open to all students. Students will learn how to improve their voices by learning proper singing techniques and skills. They will learn to read music through sight singing, rhythm skills, and understanding musical terms and markings. Credit will be earned through class participation, performance evaluations and attendance at scheduled performances.

6311 - Concert Band

Grade - 9, 10, 11, 12

1 Credit

Prerequisite: Minimum of 1 year of School or Private Lessons on a Concert Band Instrument

Concert Band enables the instrumentalist to perform in a large ensemble consisting of brass, woodwinds, and percussion instruments. Students are introduced to a wide variety of musical literature, both in the classic and contemporary settings. This class serves as an advanced continuation of previous band settings, such as private lessons or middle school band programs. Credit is earned through mastering the skills of musicality, class participation and performance attendance.

632 - Jazz Band

Grade - 9, 10, 11, 12

1 Credit

Concert Band enables Jazz Band focuses on musical independence, high-level jazz literature, improvisation, and the exploration of the various forms of jazz music. Enrollment in this course is open to all students who have developed the appropriate pre-requisite skills on their instruments and are experienced musicians who have an interest in advancing their musical skills. Instrumentation for this ensemble includes saxophone, clarinet, trumpet, trombone, drum set, mallet percussion, piano, guitar, and bass. Supplemental after-school rehearsals are a required part of this course. The Jazz Band will perform in various concerts, community performances, and select competitions each year. These performances are required for all students enrolled in this course. Concurrent enrollment in Band 9+ or WH Band is highly recommended.

63101 - Concert Band – WH

Grade - 10, 11, 12

1 Credit

Prerequisite: Successful Completion of 1 year of Concert Band with a Grade of a B or Better and Teacher Recommendation

Students in weighted honors concert band will build on the skills learned during the first year of concert band (course #631). Additional requirements will include more performances outside of the school day. Students taking this course are required to achieve a B or better during their first year of high school concert band. Teacher recommendation is required.

6341 – Orchestra

Grade - 9, 10, 11, 12

1 Credit

Prerequisite: Minimum of 1 Year of School or Private Lessons on an Orchestral String Instrument

Orchestra enables orchestral string players to perform in a large ensemble. Students will continue studies on their primary string instrument and practice their mastery of skills, including tuning, care and maintenance, and performance technique. Students will be introduced to a wide variety of strong orchestra literature, both in the classical and contemporary settings. This class serves as an advanced continuation of previous orchestral settings, such as private lessons or middle school orchestra programs. Credit is earned through performance assessments, class participation, and concert attendance.

6351 - Orchestra – WH

Grade - 10, 11, 12

1 Credit

Successful Completion of 1 year of Orchestra with a Grade of a “B” or Better and Teacher Recommendation

Students in weighted honors orchestra will build on the skills learned during the first year of orchestra 634. Additional requirements will include more performances outside of the school day. Students taking this course are required to achieve a B or better during their first year of high school orchestra. Teacher recommendation is required.

636 - Piano I

Grade - 9, 10, 11, 12

1 Credit

This course is designed as an introduction to piano and fundamental music theory. No prior musical knowledge is necessary as this class is organized for a beginner to learn from the ground up. Students will become musically literate as well as learn the fundamental techniques for playing the piano. Students will be able to perform and compose basic piano music.

637 - Advanced Piano-WH

Grade - 10, 11, 12

1 Credit

Prerequisite: Overall grade of an “A” in Piano I and Teacher Signature

Advanced Piano is designed to give enthusiastic students the opportunity to continue their study of piano. This is a rigorous course and should only be taken if the student is dedicated to improving their piano ability. Space is extremely limited.

640 - Guitar I

Grade - 9, 10, 11, 12

1 Credit

This course is designed as an introduction to the guitar. Students will learn the proper techniques such as posture, finger placement, tone production, care of instrument, and tuning. They will also learn various strumming patterns, open and barre chords, note-reading in treble clef, tablature, ensemble playing, composition, and performance practice.

641 - Guitar Ensemble – WH

Grade - 10, 11, 12

1 Credit

Prerequisite: Successful Completion of Guitar I with a Grade of a “B” or Better AND Department Recommendation

This course is an expansion of Guitar I, and is designed for the second year and more advanced student. Students will utilize all concepts from Guitar I and will additionally learn scales, classical, blues, and advanced ensemble playing. Evening concerts in winter and spring are mandatory. Credit is earned through performance assessments, class participation, and concert attendance. Students will be expected to participate in additional performances.

6441 - Select Choir – WH

Grade - 9, 10, 11, 12

1 Credit

Prerequisite: Audition Required

Select Choir and Select Strings teach advanced level technique through the use of challenging high school and college level music. Students are required to attend the festivals, evening concerts throughout the year, and community performances. Enrollment is determined by audition or teacher placement.

645 - Music Theory

Grade - 10, 11, 12

1 Credit

Prerequisite: Successful Completion of at Least 1 Year of Band, Orchestra, or Piano with a Grade of a “B” or Better

Students will learn to analyze and create traditional western music. The ability to read and write musical notation is fundamental to such a course. It is assumed that the student has acquired (or is acquiring) at least basic performance skills in voice or on an instrument. Students interested in this course should be aware that they will be required to sing (known as sight-singing) on a daily basis. Students will be required to compose and perform their own pieces of music by the end of the course. This course is the prerequisite for the AP Music Theory course. Students must pass this course with a B or higher in order to enroll in AP Music Theory.

6450 - AP Music Theory

Grade - 11, 12

1 Credit

Prerequisite: Successful Completion of Music Theory

This course is designed to prepare students for college-level music theory classes and for the Advanced Placement Music Theory exam. Students will learn to analyze and create traditional, western music. The ability to read and write musical notation is fundamental to such a course. It is assumed that the student has acquired basic performance skills on an instrument. Students interested in this course should be aware that they will be required to sing (known as sight-singing) on a daily basis. Students are also required to take the AP Music Theory exam. Students can bypass “Music Theory” and enter AP Music Theory by successfully passing the Entrance Exam, showing they are proficient on an instrument, and providing a NAHS Music Teacher’s Recommendation. **Students must receive a letter of recommendation for this course from a NAHS Music Teacher. *Summer work is required for this course. *Not offered 2023-2024 school year.***

PERFORMING ARTS ELECTIVES

661 - Acting

Grade - 10, 11, 12

1 Credit

Prerequisite: 9th Graders Must Have Teacher Recommendation

In this workshop style course, students will learn the elements and principles of acting. Students will perform daily in front of their classmates and are expected to memorize lines for monologues, scenes, and plays. Writing, in the form of character biographies, peer feedback, and reflection, will also be an integral part of this course.

667 - Acting II

Grade - 11, 12

1 Credit

Prerequisite: Successful Completion of Acting

In this workshop style course, students will continue to learn the elements and principles of acting. Students will perform daily in front of their classmates and are expected to memorize lines for monologues, scenes, and plays. Writing, in the form of character biographies, peer feedback, and reflection, will also be an integral part of this course.

669 - Academic & Technical Theatre

Grade - 9, 10, 11, 12

1 Credit

This course will present a survey of all aspects of live theatre including history, playwriting, performances skills, production techniques, and business knowledge. There will be special emphasis placed on the specialized skills necessary to produce a play (tech). Students will develop and practice these skills and understandings as they write their own plays and design the corresponding theatrical elements. Students should also expect to build and paint scenery as well as design costumes, props, lighting, sets, and publicity. **Note: This is not an acting class.**

670 - Academic & Technical Theatre II

Grade - 10, 11, 12

1 Credit

Prerequisite: Successful Completion of Academic and Technical Theatre

Students will continue to develop their knowledge and skills in the production of live theatre as learned in Academic and Technical Theatre. Moreover, students will assume leadership roles, managing teams of classmates in the conception and execution of tech for the after-school theatre program. Participation in at least one after-school Drama Club production will be required.

SCIENCE ELECTIVES

303 - Biology II

Grades - 10, 11, 12

1 Credit

Prerequisite: Successful Completion of Biology I or WH Biology I

This course is a continuation of Biology I, concentrating on the structure and function of organisms in the five kingdoms. Laboratory investigations include the dissection of various invertebrates and vertebrates. The subject matter is designed for students who wish to continue their studies in the area of life sciences. Students who do not score proficient on the Keystone Exam will retake the exam after the completion of this course.

3030 - Biology II – WH

Grades - 10, 11, 12

1 Credit

Prerequisite: Successful Completion of Biology I or WH Biology I and Proficiency on the Biology Keystone Exam

This course is designed to prepare students for college-level Anatomy and Physiology. Students will be exposed to a rigorous curriculum focusing on the 6 Kingdoms in Biology, while concentrating on the structure and function of invertebrates and vertebrates. Class dissections of both invertebrates and vertebrates provide a hands-on learning experience for exploration of animal cells, tissues, organs and organ systems of the organism being studied. All laboratory exercises support biological themes and demand proper written communication of the scientific method and techniques, manipulation of data, analysis of scientific data, and use of dissection equipment and data to support scientific conclusions. The subject matter presented in this course is designed for students interested in Anatomy and Physiology and to further their studies in the life sciences.

30300 - AP Biology

Grade - 10, 11, 12

1 Credit

Prerequisites: Successful Completion of Biology I WH with a “B” or Better and Teacher Recommendation or Successful Completion of Biology I with an “A” and Teacher Recommendation

This course is organized based on the four big ideas and corresponding enduring understandings as listed in the Curriculum Framework. The four big ideas are: Big Idea 1: The process of evolution drives the diversity and unity of life. Big Idea 2: Biological systems utilize free energy and molecular building blocks to grow, reproduce and to maintain dynamic homeostasis. Big Idea 3: Living systems store, receive, transmit and respond to information essential to life processes. Big Idea 4: Biological systems interact, and these systems and their interactions possess complex properties. All of the big ideas & essential knowledge components will be taught to students and all learning objectives will be assessed using laboratory, exam and formative assessments. While this course generally flows from Big Idea 1 to 2 to 3 to 4, each unit will provide students with opportunities to make connections between all four big ideas, as evidenced in the “Course Details” section. In addition, summer assignments must be completed prior to entering the course. ***Summer work is required for this course. Completion of AP courses may support the completion of Act 158: Alternative Assessment and Evidence Based Pathways. This course will be offered concurrently with Montgomery County Community College’s Biology 121/122 course. Students will be offered the opportunity to earn high school credit for the course in addition to college credit. Students must meet all MCCC and College Board requirements as outlined by the instructor to earn credit.***

3040 - Anatomy and Physiology – WH

Grade - 10, 11, 12

1 Credit

Prerequisite: Successful Completion in Biology I

Human Anatomy and Physiology is a laboratory science course that includes an in-depth study of the body systems that maintain homeostasis from anatomical and physiological perspectives. Students explore anatomical and physiological concepts of the ten major body systems through an inquiry-based approach which includes the dissection of owl pellets, cats, pigs, and sheep brains. Assessments in this course are hands-on as well as text based. Students interested in the healthcare profession will find this course sets a great foundation for future learning.

30600 - AP Chemistry

Grade - 11, 12

1 Credit

Prerequisites: Successful Completion of Chemistry WH with a “B” or Better and Teacher Recommendation or Successful Completion of Chemistry with an “A” and Teacher Recommendation

This AP Chemistry course is college level course. For most students, the course enables them to undertake, as a freshman, second year work in the chemistry sequence at their institution or to register in courses in other fields where general chemistry is a prerequisite. This course is structured around the six big ideas articulated in the AP Chemistry curriculum framework provided by the College Board. This framework is based on six big ideas. Big Idea 1: Structure of matter, Big Idea 2: Properties of matter-characteristics, states, and forces of attraction, Big Idea 3: Chemical reactions, Big Idea 4: Rates of chemical reactions, Big Idea 5: Thermodynamics. Big Idea 6: Equilibrium A special emphasis will be placed on the practices, which capture important aspects of the work that scientists engage in, with learning objectives that combine content with inquiry and reasoning skills. AP Chemistry is open to all students that have completed a year of chemistry who wish to take part in a rigorous and academically challenging course (see prerequisites). In addition, summer assignments must be completed prior to entering the course. *Summer work is required for this course. Completion of AP courses may support the completion of Act 158: Alternative Assessment and Evidence Based Pathways.*

308 - Earth-Space Science

Grade - 10, 11, 12

1 Credit

Prerequisites: Successful Completion of Biology I or WH Biology I

Earth-Space is a blend of several sciences including Biology, Chemistry and Physics. In this course, students will explore the earth as a system of components that function together. Students will explore the structure, the processes that affect the surface, and the actions of the atmosphere. In this exploration of earth, students will cover several environmental and conservation issues. This course will also view the earth as a member of the solar system and the universe.

3080 - Earth-Space Science – WH

Grade - 10, 11, 12

1 Credit

Prerequisites: Successful Completion of Biology I and Teacher Recommendation or Successful Completion of WH Biology I

This course requires students to employ previously and newly learned scientific and problem-solving skills along with appropriate technology to a study of the Earth, The Earth’s movement in space, and how event on Earth affect human activity. The scope of this course ranges from an in-depth examination of the movement of the Earth’s plates to how man has adapted to changes in his environment caused by himself and natural events. Students will receive 4-6 hours of independent material to work on outside of the class per week.

309 – Forensics

Grade - 11, 12

1 Credit

Prerequisite: Successful Completion of Two Years of Science

This course focuses on the collection, identification and analysis of crime scene evidence to determine who committed the crime and how. Emphasis will be placed on the procedures that link suspect, victim, and crime scene. The methodology a forensic scientist uses will be studied through numerous lab experiments, guest speakers and a field trip to the Montgomery County Detective Bureau. Assessments in this course will be hands-on as well as text based. Students interested in a criminal justice career will find this course rewarding.

311 – Physics 
Grade - 11, 12
1 Credit

Prerequisites: Successful Completion Algebra I

This course presents an examination of the fundamental themes of Newtonian mechanics, light, sound, electricity, magnetism, and modern physics. The study of physics is helpful for students who will most likely go into college or some form of post-high school education.

3110 - Physics – WH 
Grade - 11, 12
1 Credit

Prerequisites: Successful Completion of Algebra I

This course presents a rigorous and comprehensive examination of the fundamental themes of Newtonian mechanics, light, sound, electricity, magnetism, and modern physics. All laboratory exercises support these themes and demand proper written communication of scientific method, techniques, manipulation of data, analysis of scientific data, and the use of experimental data and critical thinking to support conclusions. Students need to be highly motivated in science. The study of physics is helpful for students who will most likely go into college or some form of post-high school education. The concepts and laws of physics explored during this course will be defined mathematically. The relationship between physics and calculus will also be explored. During each marking period students will be required to complete an independent or small group project related to topics in physics.

31100 - AP Physics  
Grade – 12
1 Credit

Prerequisites: Successful Completion of WH Physics with a “C” or Better or Physics with a “B” or Better

AP Physics is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as fluid statics and dynamics; thermodynamics with kinetic theory; Pressure Volume diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics. *Summer work is required for this course. Completion of AP courses may support the completion of Act 158: Alternative Assessment and Evidence Based Pathways.*

314 - Environmental Science 
Grade - 10, 11, 12
1 Credit

Prerequisites: Successful Completion of Biology I or WH Biology I

Environmental science includes the study of biological ecosystems (all living things within a particular geographic location). The course will also examine the impact of man and nature on the survival of the existing environment. Incorporated will be field evaluations of local rivers and streams, with the possibility of community service through water and soil testing of parks and watersheds. Present concern for our environment is a major political and social issue, and government regulation is a key concern as well. Career opportunities in environmental service should expand to meet these needs.

3140 - AP Environmental Science  
Grade - 10, 11, 12
1 Credit

Prerequisites: Successful Completion of Biology I WH with a “B” or Better and Teacher Recommendation or Successful Completion of Biology I with an “A” and Teacher Recommendation

This course will cover the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze both natural and human-made environmental problems, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Students who take this course are required to take the AP Environmental Science exam. In addition, summer assignments must be completed prior to entering the course. *Summer work is required for this course. Completion of AP courses may support the completion of Act 158: Alternative Assessment and Evidence Based Pathways.*

SOCIAL STUDIES ELECTIVES

1060 - AP Modern European History

Grade - 10, 11, 12

1 Credit

This course is offered to students who would like to advance their study of European History in order to prepare for the Advanced Placement Test, and will prepare them to do the necessary essay writing that would accompany such a test. The course enables students to understand the principle themes in European History and to prepare for an in-depth analysis of those themes. Students will be challenged with how to communicate these themes and relate them to both European history and history of Western Civilization. At the end of the course, all students are required to take the AP test. *Summer work is required for this course.*

107 – Sociology

Grade - 11, 12

1 Credit

This course is an examination of the culture and structure of human societies. The course focuses on social groups and institutions, their norms, values and beliefs. Topics of discussion will include the family, education, deviance, race and ethnicity, gender roles, societal change, and social inequalities.

118 – Psychology

Grade - 10, 11, 12

1 Credit

In this course students survey the research and theories of the science of human behavior with a particular focus on human mental processes. Among the topics discussed are development, learning, memory, perception, personality, motivation, social behavior, abnormal behavior and therapy. Also included is an introduction to the various careers associated with psychology. Key to the study of psychology is the scientific method and how it is applied to the analysis and measurement of individuals and groups.

1180 - AP Psychology

Grade - 10, 11, 12

1 Credit

This course will introduce students to the systematic and scientific study of behavior and mental processes of human beings and animals. Students are exposed to the physical facts, principles and phenomena associated with the major subfields within psychology. Students will also learn about the method psychologists' use in their science and practice. At the end of the course, all students are required to take the AP test. *Summer work is required for this course.*

128 – Law

Grade - 9, 10, 11, 12

1 Credit

Law is a rigorous law-related education class that gives students a practical understanding of our laws and legal system. This course focuses on legal issues relevant to students' lives and develops knowledge and skills essential in our law-oriented society using critical thinking and reasoning, communication and problem solving. Students will gain a basic understanding of the fundamental principles and values underlying in the U.S. Constitution, and how it influences both civil and criminal law, as well as focusing on juvenile, family, and consumer law.

1300 - AP Human Geography

Grade - 10, 11, 12

1 Credit

This course analyzes the fundamental concepts of geography and helps students develop critical thinking skills through the understanding and application of the field. This course focuses on the key concepts of geography as a field of inquiry dealing with the following areas of geography respectively, cultural, political, agricultural, industrial, rural, economic, city and urban planning as well as population problems. At the end of the course, all students are required to take the AP test. *Summer work is required for this course.*

108 - African-American History

Grade - 9, 10, 11, 12

1 Credit

This introductory course, both intensive and extensive, provides an interdisciplinary study of important themes and topics central to the study of experiences of African Americans in the United States. Students will explore theoretical questions, methodological approaches, and major themes that have shaped African American life and culture in the United States. The course begins with classical African civilizations and then explores the impact of African-Americans on the development of the United States. The course is taught using secondary sources.

10800 - African-American History and Culture – Dual Enrollment

Grade - 11, 12

1 Credit

This course is a chronological survey of the history of African Americans from their African beginnings through their progress in the twenty-first century. Five units in the history of African Americans will be emphasized - becoming African American, antebellum black life, the Civil War and Reconstruction, White Supremacy and legalized injustice, the Civil Rights movement through the modern era. *This course will be offered concurrently with Montgomery County Community College's English Composition 214 course. Students will be offered the opportunity to earn high school credit for the course in addition to college credit. Students must meet all MCCC and College Board requirements as outlined by the instructor to earn credit.*

110 - Mexico and Latin American History & Culture

Grade - 11, 12

1 Credit

Prerequisite: Success Completion of U.S. History

This course will introduce students to the study of Latin American history and culture by analyzing events, experiences and current topics impacting Mexico and Latin America and themes that have forged Latin American identity and culture. Students will be able to understand major events that have shaped Latin America. The course explores the major Native American Civilizations of Latin America including the Aztecs, Maya and Incas. The course analyzes the Age of Exploration and its impact on both Latin America and Europe while discussing the consequences of the Columbian exchange. The course investigates life during the colonial period, various independence movements throughout Mexico and Latin American and current issues that impact the region and its relationship with the United States.

WORLD LANGUAGE ELECTIVES

To progress to the next level, a student must earn at least a C and/or have the teacher's recommendation. Many colleges and universities require a minimum of 2 years of the same world language to be considered for admission. More selective colleges and universities may be interested in seeing students take 3 or 4 years of the same world language.

400 - French I



Grade - 9, 10, 11

1 Credit

This introductory course is for students who have never studied the language or have minimal/limited prior knowledge of or exposure to the language. Students are introduced to basic vocabulary and grammar and learn to communicate about themselves, their families, restaurants, and leisure activities. The four skills of listening, speaking, reading, and writing are emphasized. Students are exposed to the customs and the culture of the target language.

4000 - French I – WH

Grade - 9, 10, 11

1 Credit

Prerequisite: Successful Completion of 8th Grade English & Teacher Recommendation

This introductory course is for students who have never studied the language or have minimal/limited prior knowledge of or exposure to the language. Students are introduced to basic vocabulary and grammar and learn to communicate about themselves, their families, restaurants, and leisure activities. The four skills of listening, speaking, reading, and writing are emphasized. Students are exposed to the customs and the culture of the target language. The course's workload and material are more challenging and include additional material (vocabulary, grammar concepts) and advanced activities (unstructured dialogue, more in-depth readings) presented at an increased pace.

401 - French II

Grade – 9, 10, 11, 12

1 Credit

Prerequisite: Successful completion of French I or WH French I

The second year builds upon the first year's program. Vocabulary development, more complex grammatical structures and additional verb tenses are emphasized. Students learn to communicate about preferences, vacations, celebrations, and gastronomy through more in-depth oral and written activities. Increased proficiency in listening and speaking is expected. More sophisticated readings are introduced. Students are expected to write original paragraphs and short compositions in the target language. The study of the culture and customs of the target language is continued through readings, videos and other media in the target language.

4010 - French II – WH

Grade – 9, 10, 11, 12

1 Credit

Prerequisite: Successful Completion of French I or WH French I with Teacher Recommendation

The second year builds upon the first year's program. Vocabulary development, more complex grammatical structures and additional verb tenses are emphasized. Students learn to communicate about preferences, vacations, celebrations, and gastronomy through more in-depth oral and written activities. Increased proficiency in listening and speaking is expected. More sophisticated readings are introduced. Students are expected to write original paragraphs and short compositions in the target language. The study of the culture and customs of the target language is continued through readings, videos and other media in the target language. The course's workload and material are more challenging and include additional material (vocabulary, grammar concepts) and advanced activities (unstructured dialogue, more in-depth readings) presented at an increased pace.

402 - French III

Grade – 10, 11, 12

1 Credit

Prerequisite: Successful Completion of French I & French II

Increasingly sophisticated vocabulary and grammatical skills are developed in conjunction with improved listening, speaking, reading, and writing abilities. Additional verb tenses are introduced. More complex reading and writing assignments are part of the course. Students learn to communicate about health, technology, driving, and occupations through advanced oral and written activities. Cultural awareness continues to be developed through readings, and the use of other media in the target language.

4020 - French III – WH

Grade – 10, 11, 12

1 Credit

Prerequisite: Successful completion of French II or WH French II with Teacher Recommendation

Increasingly sophisticated vocabulary and grammatical skills are developed in conjunction with improved listening, speaking, reading, and writing skills in accordance with ACTFL guidelines for World Languages in order to communicate better in the language. Additional verb tenses are introduced. Students learn to communicate about health, technology, driving, and occupations through advanced oral and written activities. More complex reading and writing assignments are part of this course. Cultural awareness continues to be developed through the study of francophone cultures through the use of newspapers, magazines, music, film, and literature. The course's workload and material are more challenging and include additional material (vocabulary, grammar concepts) and advanced activities (unstructured dialogue, more in-depth readings) presented at an increased pace.

4030 - French IV – WH



Grade - 11, 12

1 Credit

Prerequisite: Successful Completion of French III or WH French III with Teacher Recommendation

Increased emphasis is placed on oral proficiency as well as written self-expression in the target language. A grammar review is combined with the introduction of the remaining essential grammar topics. Readings are in the target language. More sophisticated writing is expected. Thematic units such as science and technology, key francophone figures, and the environment are studied. Cultural topics are conveyed through the use of authentic resources such as magazines, videos, and internet resources. The course's workload and material are more challenging and include additional material (vocabulary, grammar concepts) and advanced activities (unstructured dialogue, more in-depth readings) presented at an increased pace.

40300 - AP French



Grade - 11, 12

1 Credit

Prerequisite: Teacher Recommendation

AP French Language and Culture is designed to increase the fluency and level of sophistication with which students express themselves in French, develops their ability to understand the language and the cultures of the French-speaking world. The course prepares students for the Advanced Placement French Language and Culture examination (additional fee), which they take at the end of the year. This exam provides the opportunity to earn college credits. Successful completion of this course requires significant work and diligence. *Summer work is required for this course. Course not be offered for the 2023-2024 school year.*

411 – Spanish for Heritage Speakers I

Grade - 9, 10, 11, 12

1 Credit

Prerequisite: Primary Language Spoken by the Student at Home is Spanish. Student must be able to Speak, Read, and Write Spanish to Some Extent. A Placement Test Will Be Used to Determine the Level Proficiency and Placement for Each Student

Students will improve their current speaking, reading, and writing skills in Spanish. The purpose of this course is to improve academic language and literacy skills for Spanish-speaking students and build an appreciation for Hispanic culture through a variety of literature, including poems, novels, and short stories. Students will also develop and improve skills in other areas of study through cross-curricular study of other disciplines while improving their Spanish skills. The course enhances literacy, improves language skills, and develops cross-cultural understanding for Spanish heritage speakers. It is taught completely in Spanish.

4112 - Spanish for Heritage Speakers II

Grade - 10, 11, 12

1 Credit

Prerequisite: Primary Language Spoken by the Student at Home is Spanish. Successful Completion of Heritage I & Teacher Recommendation

Students will continue to improve their current speaking, reading, and writing skills in Spanish. The purpose of this course is to improve academic language and literacy skills for Spanish-speaking students and build an appreciation for Hispanic culture through a variety of literature, including poems, novels, and short stories. Students will also develop and improve skills in other areas of study through cross-curricular study of other disciplines while improving their Spanish skills. The course enhances literacy, improves language skills, and develops cross-cultural understanding for Spanish heritage speakers. It is taught completely in Spanish.

4113 - Spanish for Heritage Speakers III – WH

Grade - 11, 12

1 Credit

Prerequisite: Primary Language spoken by the student at home is Spanish. Successful completion of Heritage II with a “C” or better & Teacher Recommendation

Students will continue to improve their current speaking, reading, and writing skills in Spanish through more intensive grammar, reading and writing activities. The course continues to enhance literacy, improve language skills, and develop cross-cultural understanding for Spanish heritage speakers. It is taught completely in Spanish.

4114 - Spanish for Heritage Speakers IV – WH

Grade – 12

1 Credit

Prerequisite: Primary Language Spoken by the Student at Home is Spanish. Successful Completion of Heritage III with a “C” or Better & Teacher Recommendation

Students will continue to improve their current speaking, reading, and writing skills in Spanish through more intensive grammar, reading and writing activities. The course continues to enhance literacy, improve language skills, and develop cross-cultural understanding for Spanish heritage speakers. It is taught completely in Spanish.

412 - Spanish I

Grade - 9, 10, 11

1 Credit

The first level of Spanish is appropriate for those students who have never studied Spanish or have had minimal prior knowledge or limited exposure to the language. Students are introduced to basic grammar and vocabulary. Students develop the four basic language skills of listening comprehension, speaking, reading, and writing through units with themes revolving around the aspects of life in the many Spanish-speaking countries. Students are introduced to customs and cultures of the many countries that speak Spanish. In addition, students will be exposed to cultural enrichment in a weekly lesson that focuses on different styles of music from Spain and Latin American countries

4120 - Spanish I – WH

Grade - 9, 10, 11

1 Credit

Prerequisite: 8th Grade English Teacher Recommendation

The first level of Spanish is appropriate for those students who have never studied Spanish or have had minimal prior knowledge or limited exposure to the language. Students are introduced to basic grammar and vocabulary. Students develop the four basic language skills of listening comprehension, speaking, reading, and writing through units with themes revolving around the aspects of life in the many Spanish-speaking countries. Students are introduced to customs and cultures of the many countries that speak Spanish. In addition, students will be exposed to cultural enrichment in a weekly lesson that focuses on different styles of music from Spain and Latin American countries. The course’s workload and material are more challenging and include additional material (vocabulary, grammar concepts) and advanced activities (unstructured dialogue, more in-depth readings) presented at an increased pace.

413 - Spanish II

Grade – 9, 10, 11, 12

1 Credit

Prerequisite: Successful Completion of Spanish I

The second year builds upon the first year's program. Vocabulary development, more complex grammatical structures, and additional verb tenses are emphasized. Increased proficiency in listening and speaking is expected. More sophisticated readings are introduced. Students are expected to write original paragraphs and short compositions in the target language. The study of the culture and customs of the target language is continued through readings, videos, and other media in the target language. Students will also be exposed to cultural enrichment in a weekly lesson that focuses on famous historical figures from Spain and Latin American countries.

4130 - Spanish II – WH

Grade – 9, 10, 11, 12

1 Credit

Prerequisite: Successful Completion of Spanish I or Spanish I WH with Teacher Recommendation

The second year builds upon the first year's program. Vocabulary development, more complex grammatical structures, and additional verb tenses are emphasized. Increased proficiency in listening and speaking is expected. More sophisticated readings are introduced. Students are expected to write original paragraphs and short compositions in the target language. The study of the culture and customs of the target language is continued through readings, videos, and other media in the target language. Students will also be exposed to cultural enrichment in a weekly lesson that focuses on famous historical figures from Spain and Latin American countries. The course’s workload and material are more challenging and include additional material (vocabulary, grammar concepts) and advanced activities (unstructured dialogue, more in-depth readings) presented at an increased pace.

414 - Spanish III

Grade – 10, 11, 12

1 Credit

Prerequisite: Successful Completion of Spanish I & Spanish II

Students continue to increase their knowledge of Spanish with an in-depth study of advanced grammar and vocabulary. There is focus on meaningful conversation in Spanish with increased emphasis on listening, speaking, reading and writing. Students will be expected to write short compositions in Spanish and to read short stories and/or novels. Students are also further exposed to Spanish-speaking people and cultures.

4140 - Spanish III – WH

Grade – 10, 11, 12

1 Credit

Prerequisite: Successful completion of Spanish II or Spanish II WH with Teacher Recommendation

Students continue to increase their knowledge of Spanish with an in-depth study of advanced grammar and vocabulary. There is focus on meaningful conversation in Spanish with increased emphasis on listening, speaking, reading and writing. Students will be expected to write short compositions in Spanish and to read short stories/novels. Students are also further exposed to Spanish-speaking people and cultures. The course's workload and material are more challenging and include additional material (vocabulary, grammar concepts) and advanced activities (unstructured dialogue, more in-depth readings) presented at an increased pace.

4150 - Spanish IV – WH

Grade - 11, 12

1 Credit

Prerequisite: Successful Completion of Spanish III or Spanish III WH with Teacher Recommendation

Increased emphasis is placed on oral proficiency as well as written self-expression in the target language. A grammar review is combined with the introduction of the remaining essential grammar topics. Readings are in the target language. More sophisticated writing is expected. Cultural topics are conveyed through the use of authentic resources such as magazines, videos, and internet resources. The course's workload and material are more challenging and include additional material (vocabulary, grammar concepts) and advanced activities (unstructured dialogue, more in-depth readings) presented at an increased pace.

41500 - AP Spanish Language & Culture

Grade - 11, 12

1 Credit

Prerequisite: Successful Completion of Spanish IV WH or Spanish for Heritage Speakers III WH

AP Spanish Language and Culture is equivalent to an intermediate level college course in Spanish. Students cultivate their understanding of Spanish language and culture by applying interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and communities, personal and public identities, beauty and aesthetics, science and technology, contemporary life, and global challenges. *Summer work is required for this course.*

ADDITIONAL ELECTIVES

055 - Peer Tutoring – WH

Grade - 11, 12

1 Credit

Prerequisite: Completion and Approval of Peer Tutoring Application Prior to Start of School Year. Applicants Must Have A Strong Academic Standing and Demonstrate a Maturity and Respect for Others.

Peer tutors have long been utilized in the school setting. These student helpers provide effective academic support to students who are not working at grade level, struggling with specific class content and concepts or just need additional support and encouragement to help them work successfully. Students interested in becoming a peer tutor are required to complete a peer tutor application and acquire teacher and/or counselor recommendations. They must be in good academic standing, have a strong desire to help others and possess the leadership, maturity and self-discipline necessary to be an effective tutor. Peer tutoring sessions would be held during selected class periods, selected lunch periods and at least one day after school.

000/111 - Early Release/Late Entry

Grade – 12

0 Credit

This class is designed for students who are on course to graduate who have successfully completed 19 credits. Permission from parent/guardian required. Student must provide own transportation.

000 - Advocacy Program

Grade – 12

1 Credit

Advocacy is designed to support Roosevelt Campus of the NAHS students in the achievement of their Personal Success Plan and credit recovery goals and provide students with post-secondary exposure and readiness. The course meets daily throughout the fall and spring semesters and is individualized for each student's unique needs based on his/her Personal Success Plan and goals. Students will also participate in group activities.

**For students attending the RCONAHS Only*



SPECIAL PROGRAMS

VIRTUAL HIGH SCHOOL

93800/93801 - VHS Virtual High School

Grade - 11, 12

1 Credit

Prerequisite: Approval from Coordinator and Principal Required

Imagine classrooms without walls, where students are able to attend their classes 24 hours a day, seven days a week. Imagine a nearly limitless selection of courses that are innovative and technologically rich in the areas of core academics, technology, and language minorities. Imagine students working cooperatively online with others from a wide variety of ages, ethnicities, backgrounds, and geographic locations. What you are beginning to imagine is the reality of the Virtual High School. VHS is an opportunity for NAHS students to take over 150 elective courses available over the Internet. The student takes the course during the regular school day and reports to class regularly. The course is a normal class except the instructor is in a classroom in another participating VHS school. There are full and half year courses for students with strong personal initiative and solid academic interests. VHS includes AP, honors, and regular classes. The courses may only be taken as electives and cannot replace a regular course. Solid computer skills are necessary. The course catalogue is available at www.govhs.org.

**In order to register for a second VHS course, student must have a final grade of a "C" or better in their previous VHS course.*

***Seats are limited*

GIFTED EDUCATION

Prerequisite: District Screening and Gifted Individualized Education Program

The courses listed below are available to students who have been identified as mentally gifted. The Gifted Seminar program is designed to expand and build upon learning taking place within the Core Curricular areas. Students receive enrichment and goal support from the Gifted Support teachers who are available for teacher/student conferencing throughout the year in addition to managing the student's annual GIEP. Participation may also include registering for monthly workshops and seminars in varying areas of interest. Students may also choose to register for a semester-long Independent Study course (see course descriptions below).

Gifted Resource Room

ALL GRADES

0 Credit

Students interested in utilizing this resource will have the opportunity to visit the Gifted Resource Room during all lunches. Students may use their time to work independently on academic assignments, conference with a gifted teacher or study collaboratively with gifted peers. This is a resource designed to foster the academic, social, and emotional needs of the gifted learner and to encourage students to develop strong work habits. Gifted teachers are available to work with individual students in connection with their GIEP goal(s) and/or future plans. Gifted Support is available only to students who are identified as gifted.

Gifted Seminar Monthly Workshops

ALL GRADES

0 Credit

As part of the Gifted Seminar program, students may choose from announced workshops and seminars which they feel reflect a personal or academic area of interest. These seminars are designed to expand and build upon learning taking place within the student's regular education classes. Typical offerings include: Cybersurgeons, Film Study, History Seminars, College Search, Drama Study, SAT Prep, Book Club, Math League and Academic competitions. More information on gifted seminar offerings is available on Schoology.

SPECIAL EDUCATION

The courses listed below are adapted from the same titled courses in the Core Curricular areas. Students will receive learning support from special education teachers in order to meet IEP goals while still addressing state standards and the general education Course of Study.

ENGLISH CLASSES with LEARNING SUPPORT:

The goal of these courses is to adapt content allowing access to grade level English curriculum and standards in order to improve student's comprehension, listening, speaking, reading, and writing skills.

0015	English I	9	1 Credit
0025	English II	10	1 Credit
0035	English III	11	1 Credit
0045	English IV	12	1 Credit

MATHEMATICS CLASSES with LEARNING SUPPORT:

The goal of these courses is designed to allow access to grade level curriculum and standards by providing practice of mathematics skills through real world applications.

2065	Pre-Algebra	9	1 Credit
2085	Algebra 1-A	9, 10	1 Credit
20815	Algebra 1-B	10, 11	1 Credit
2095	Algebra 1 full year	9, 10	2 Credits
2205	Geometry	10, 11	1 Credit
2315	Business Math	11, 12	1 Credit

SCIENCE CLASSES with LEARNING SUPPORT:

The goal of these courses is to access grade level science curriculum in the areas of biology and chemistry, and to improve reading, thinking, and study skills.

3005	General Science	9	1 Credit
3015	Biology	9	1 Credit
30615	Conceptual Chemistry	10, 11, 12	1 Credit

INTERVENTION COURSES - SCHEDULED IN COMBINATION WITH REGULAR COURSE SCHEDULE

These courses are designed to provide supplemental and intervention-based instruction for students in addition to their regular course schedule. Placement in these courses is an IEP team decision.

Reading 1 (A/B)

Grade - 9, 10, 11, 12

1 Credit

Reading Intervention 1 is designed for students with a language-based specific learning disability. This intervention is provided to students who require more intensive, structured literacy instruction utilizing multi-modalities approaches to reading. The focus of Reading 1 is to master the foundational skills of reading. As a structured literacy program based on phonological-coding research, this intervention directly and systematically teaches the structure of the English language. Through the program, students learn fluent decoding and encoding skills to the level of mastery to assist in students' comprehension of texts. Reading 1 is scheduled at the discretion of the IEP team and can span between 1-2 years, depending on students' needs.

Reading 2 (A/B)

Grade - 9, 10, 11, 12

1 Credit

Reading 2 is a comprehensive, research-based reading program designed for students with a Specific Learning Disability in reading comprehension. The flexible, multi-year program provides students the skills they need to quickly become fluent, competent, and confident readers. Students are exposed to books that are relevant to their lives and the problems they face. Students learn to apply vocabulary, prediction, decoding, fluency, and summarization strategies to various texts. The goal of Reading 2 is to independently integrate the strategies to unfamiliar passages and novels. Reading 2 is scheduled at the discretion of the IEP team and can span between 1-2 years, depending on students' needs.

2055 - Foundations of Math

Grade – 9

1 Credit

Mastery-based, intensive intervention that focuses on the foundational concepts and problem-solving strategies needed for successful entry into algebra that utilizes key foundational skill-building through multisensory strategies.

2065 - Pre-Algebra

Grade – 9

1 Credit

This course is designed for students with an Individualized Education Program (IEP) that may require extra foundational skills before entering Algebra 1A. In this course, students will review mathematical skills needed for the study of Algebra as well as a brief introduction to Algebra. Topics include the arithmetic of integers, fractions, decimals, and percents; applications of these arithmetic skills to problems involving measurement, percent, ratio, and proportion; and math study skills. The introduction to Algebra consists of operations on signed numbers, algebraic expressions, solving linear equations and an introduction to graphing.

ADDITIONAL COURSES – SCHEDULED IN COMBINATION WITH REGULAR COURSE SCHEDULE

989 - Co-op

Grade - 11, 12

Variable Credit

Co-op offers the students an opportunity to receive high school credit for work experience. The job is considered a class, and the employer is the on-the-job teacher. Students can receive assistance finding a job through the co-op Coordinator or can continue working at an approved workstation. The student will receive a grade and credit based on work performance and work-related assignments. See your counselor for application information.

990 - Community Based Vocational Training (CBVT)

Grade - 11, 12

Variable Credit

This course permits eligible students who have an Individual Education Program (IEP) the opportunity to participate in non-paid vocational training at a District approved community or school district worksite. Students participate in work training that can be up to a half day of participation.

ENGLISH LANGUAGE DEVELOPMENT

0715 - Intensive English Language Development 1

Grade - 9, 10, 11, 12

2 Credits

Prerequisite: Diagnostic Testing

This course is designed for students with a WIDA Screener or WIDA ACCESS score below 2.2.

The course will emphasize oral language development and introduce content vocabulary and the language skills necessary to be successful in all subject areas by concentrating on the four language domains: listening, reading, speaking and writing, according to the PA Standards for English Language Development and WIDA Standards.

0725 - Intensive English Language Development 2

Grade - 9, 10, 11, 12

2 Credits

Prerequisite: Diagnostic Testing

This course is designed for students with a WIDA Screener or WIDA ACCESS score between 2.3 and 3.5. The course focus is on the development of the forms and functions of language including basic writing skills, syntax, academic vocabulary development and reading comprehension. Reading and writing strategies and scaffolds are used to promote the development of academic literacy and language skills in the four language domains according to the PA Standards for English Language Development and WIDA Standards.

0735 - Intermediate English Language Development 3

Grade - 9, 10, 11, 12

1 Credit

Prerequisite: Diagnostic Testing

This course is designed for students with a WIDA Screener or WIDA ACCESS score between 3.6 and 3.9. The course is designed to build on and further develop the forms and functions of language. A public speaking component is included. Skills in the four language domains: listening, reading, speaking and writing are expanded on according to the PA Standards for English Language Development and WIDA Standards.



Central Montco Technical High School (CMTHS) provides a variety of educational programs that prepare students to enter the workforce or to continue their education at colleges, universities, and technical schools. In addition to occupation specific training, CMTHS promotes the development of civic responsibility, employability skills, leadership, and professionalism. All programs are competency based and designed to meet the needs, skills, interests, abilities, and preferences of the individual student. *Completion of a Technical School may support the completion of Act 158: Career and Technical Education.*

“Shaping Today’s Students for Tomorrow’s Careers”

CMTHS is also committed to serving the business and industry sector of the community by providing programs that assist in meeting local, state, and national workforce requirements. At CMTHS, caring and professionally certified staff share their skills while challenging and mentoring their students. Many of the instructors have established high profiles in their fields of expertise prior to becoming teachers. Instructors serve as mentors and respond to individual needs as they extend their support and enthusiasm while preparing students for the future. Students can obtain a variety of state and nationally recognized certifications and professional licenses.

This guide is a summary of the many programs offered at CMTHS. Please visit the CMTHS Online Course Selection Guide at www.cmths.org for the latest and most detailed information about each program including topics of study, which post-secondary schools CMTHS students are attending, occupational outlook, related occupations, uniform and tool requirements, articulation agreements, and photographs.

2023-2024 COURSE SELECTION GUIDE

- 9050 - Allied Health Technology (12th only)
- 904 - Automotive Technology
- 918 - Baking & Pastry Arts
- 900 - Building Trades
- 902 - Collision Repair Technology
- 908 - Cosmetology
- 915 - Culinary Arts
- 913 - Early Childhood Education
- 919 - Exercise Sciences and Rehabilitation Therapy (11th and 12th only)
- 914 - Healthcare Sciences
- 928 - Landscape Design & Construction
- 912 - Networking Technology
- 923 - Public Safety
- 911 - Teacher Academy (12th only)
- 909 - Video/Sound/Music Production
- 907 - Visual Communications

ADMISSIONS PROCESS

Admission to CMTHS is based upon the recommendation of sending school staff and/or IEP team as well as program availability. A registration form with a copy of the IEP, if applicable, is required before enrollment through careful scheduling with sending school counselors, students are able to meet most college entrance requirements and attend CMTHS. We encourage all students and parents to visit our school and meet with the CMTHS school counselor in order to select the most appropriate program and schedule of academic classes. Although our programs are developed around a three-year curriculum, students may enter CMTHS in 10th, 11th, or 12th grade. CMTHS registration eCollect form is available online and will be shared with the sending school districts in order to facilitate this information to their students. The form is publicly accessible via any internet browser. You can also find a link to this form on our website (www.cmths.org) under 'Prospective Students'.

EQUITY STATEMENT

Central Montco Technical High School does not discriminate in its education programs, activities or employment practices based on sex, color, national origin, race, sexual orientation, disability, age, religion, ancestry, political opinions or affiliations, or lawful activity in any employee organization. Central Montco Technical High School provides equal access for other designated youth groups. For information about your civil rights and grievance procedures contact the Equal Rights Coordinator at (610) 277-2301.

DISCLAIMER

Articulation agreements between the Pennsylvania Department of Education / Bureau of Career and Technical Education and post-secondary schools are subject to change as they are annually negotiated and updated. See www.pacollege-transfer.com for more information on articulations.

SPECIAL SERVICES

Student Support Services

- Career portfolio instruction
- School counseling – Career, Academic, and Social & Emotional
- Learning support services

Work-based Studies

- Job Shadowing: An opportunity for students to observe or 'shadow' someone in their chosen career in the actual place of work.
- Internships: Paid and non-paid work-based experiences for a specified length of time.
- Clinical Experiences: Non-paid, work-based experiences in hospitals, long term care facilities and day care centers.
- Cooperative Education: Program related placements that are paid, on-the-job training positions and are considered an extension of the classroom. The timeline for placement is individualized and based on student need. Students are trained under the direct supervision of the employer and are assigned a mentor. Students' progress is monitored and evaluated by the school and the employer on a continual basis.

STUDENT ORGANIZATIONS

SkillsUSA and Health Occupations Students of America (HOSA):

SkillsUSA and HOSA have very active chapters at CMTHS. These programs are nationally recognized organizations in which all students may participate. SkillsUSA is a national partnership of students, teachers, and industry working together to ensure America has a skilled work force through leadership training and student governments.

The National Technical Honor Society (NTHS):

The National Technical Honor Society is the acknowledged leader in the recognition of outstanding achievement in career and technical education. Over 2000 schools and colleges throughout the U.S. and its territories are affiliated with the Society. Member schools agree that NTHS encourages higher scholastic achievement, cultivates a desire for personal excellence, and helps students find success in today's competitive workplace.

ALLIED HEALTH TECHNOLOGY

(12th grade only)

Course Description: Allied Health Technology is an Honors College Prep course designed for academic students who wish to pursue a career in the healthcare/medical professions. This program is open to 12th grade students who meet the required prerequisites.

This is a program with a combination of subject matter and experiences designed to prepare individuals for entry level employment in a minimum of three related health occupations under the supervision of a licensed health care professional. Instruction consists of core course content with clinical experiences in many health related occupations. The core curriculum consists of planned courses for introduction of health careers, basic anatomy and physiology, medical terminology, legal and ethical aspects of health care and communications, and clinical rotations in a hospital or medical setting as required by the curriculum.

Course Content:

- Safety
- Professionalism, Legal, & Ethical Issues
- Communication Skills
- Infection Control
- Emergency Care and Disaster Preparedness
- Human Needs and Development
- Healthcare Provider Skills
- Nutrition & Hydration
- Structures & Functions of the Human Body
- Basic Diseases
- Death & Dying
- Medical Terminology

Admission Criteria:

- Specific GPA
- Specific Math and Science Courses
- Excellent Attendance
- Excellent Behavior

Potential State or National Certifications available at CMTHS:

- ASHI (American Safety & Health Institute) CPR Pro and First Aid
- DPW (Department of Public Welfare) Certificate for Patient Care Assistant
- Medical Assisting
- Nurse Assisting and EKG Technician from AMCA (American Medical Certification Association)
- CareerSafe OSHA Certification for Healthcare workers

Related Occupations: Physician, Pharmacist, Physician Assistant, Radiologist, Physical Therapist, EKG Technician, Nurse Practitioner, Medical Lab Technician, Surgical Technician

Required Uniform and Materials: Gray hospital scrubs, black scrub pants, white leather shoes or sneakers, watch with a second hand, stethoscope recommended.

Additional Requirements: Background Checks, Physical Exam, Updated Immunizations, Panel Drug Screening

AUTOMOTIVE TECHNOLOGY

Course Description: This is an instructional program that prepares individuals to apply technical knowledge and skills to engage in the servicing and maintenance of all types of automobiles and light trucks. This program includes instruction in the diagnosis and testing, including computer analysis, of malfunctions in and repair of engines, fuel, electrical, cooling and brake systems, drive trains and suspension systems. Instruction is also given in the adjustment and repair of individual components and systems such as fuel system components and air conditioning and includes the use of technical repair information and the procedures for state inspection.

Course Content:

- Orientation and Safety
- Tools/Fasteners
- Suspension and Steering
- Brakes
- Electrical and Electronics Systems
- Engine Repair
- Engine Performance
- Vehicle Maintenance and Reconditioning
- Heating and Air Conditioning

Potential State or National Certifications Available at CMTHS:

- NOCTI Automotive Technology PA
- SP/2: Mechanical Safety, Mechanical Pollution Prevention, Hazardous Training
- NAPA E-learning Course
- Valvoline Engine Oil & Chemicals Certification
- Automotive Service Excellence (ASE) Student Certification
- Certified PA Safety Inspector
- Certified PA Emissions Inspector
- EPA609 Certification

Articulation Agreement: Automobile/Automotive Mechanic Technology / Technician CIP Code: 47.0604
See www.patrac.org for program specific articulation agreements.

Related Occupations: Auto Technician, Auto Parts Sales, State Emissions Inspector, General Line Technician, Service Writer, Transportation Inspector

Required Uniform and Materials: a uniform consisting of Dark blue Dickies® pants, leather work boots, and T-shirt are required and available from www.cmths.org. Toolbox, lock, and tools (required tool list provided by the instructor).

BAKING AND PASTRY ARTS

Course Description: This is an instructional program with specialized classroom and practical work experiences associated with the preparation of breads, crackers, cakes, pies, pastries and other bakery products for retail distribution, consumption in a commercial food service establishment or special functions. Instruction includes making, freezing and handling of baking products, decorating and displaying of baking items at a retail counter display, and packaging of merchandise. This is a comprehensive program designed to prepare individuals for employment in a variety of occupations in the baking industry.

The Baking and Pastry Arts Program is a continuation of the 1st year Culinary Arts/Baking Program which offers a cutting-edge curriculum for all students interested in culinary arts, baking, service management and related fields to study in our state-of-the-art kitchen and restaurant. Students have the opportunity to demonstrate skills at our in- house restaurant and catering program while providing services to residents of the local community. We also offer a full-service bakery run entirely by our students.

Course Content:

- Introduction to the Hospitality & Baking Industry
- Sanitation & Safety
- Business & Math Skills
- Baking Preparation
- Baking Fundamentals
- Purchasing, Receiving, Inventory & Storage
- Nutrition
- Baking Planning
- Human Relations Skills
- Potential State or National Certifications Available at CMTHS:
- NOCTI Retail Commercial Baking
- ServSafe Food Handler Certification
- ServSafe Manager Food Safety Certification

Articulation Agreement: Baking & Pastry Arts/Baker/Pastry Chef - CIP 12.050. See www.patrac.org for program specific articulation agreements.

Related Occupations: Pastry Chef, Line Cook, Bakery Manager/Owner, Banquet Chef, Caterer, Baker, Bread Maker, Food Stylist.

Required Uniform and Materials: Chef coat and pants, apron, and hat. Uniforms are available at www.cmths.org.

BUILDING TRADES

Course Description: This is an instructional program that prepares individuals to apply technical knowledge and skills in the maintenance and repair of residential and commercial buildings. Instruction includes the basics of carpentry, electrical, millwork, plumbing, painting, minor sheet metal, masonry, tile setting, heating, and OSHA safety standards. The Building Trades Program is an excellent option for students interested in a career related to residential and commercial construction.

Course Content:

- Safety
- Building & Property Maintenance
- Carpentry & Repairs
- Portable Power Tools
- Tools and Machine Maintenance
- Structures: Roofs, Floors, Stairs, Doors, Windows, Walls
- Masonry: Concrete, Floor and Wall Tile,
- Residential Electrical Circuits
- Residential Plumbing
- Finishing Materials
- Environmental Control Systems

Potential State or National Certifications Available at CMTHS:

- NOCTI Building/Property Maintenance PA
- OSHA 10-hour Certification
- Gastite Certification
- Tracpipe Certification
- NCCER Credentials (various trades)
- Ladder Safety Certification

Articulation Agreement: Building/Property Maintenance & Manager—CIP Code: 46.0401 See www.patrac.org for program specific articulation agreements.

Related Occupations: Carpenter, Cement Mason, Construction Manager, Electrician, HVAC Technician, Plumber, General Contractor, Architect, Construction Engineer, and Job Site Supervisor.

Required Uniform and Materials: Building Trades black T-shirt /Sweatshirt are available at www.cmths.org. Student must wear leather work boots, hard hat, and safety glasses. Students must have a tool bag, tool belt, and tools. (A list will be provided by the instructor).

COLLISION REPAIR TECHNOLOGY

Course Description: This is an instructional program that prepares individuals to apply technical knowledge and skills to repair damaged automotive vehicles such as automobiles and light trucks. Students learn to examine damaged vehicles and estimate cost of repairs; remove, repair and replace upholstery, accessories, electrical and hydraulic window and seat operating equipment and trim to gain access to vehicle body and fenders; remove and replace glass; repair dented areas; replace excessively damaged fenders, panels and grills; straighten bent frames or unibody structures using hydraulic jacks and pulling devices; and file, grind and sand repaired surfaces using power tools and hand tools. Students refinish surfaces by painting with primer and a finish coat.

Collision Repair Technicians are skilled workers who repair minor and major defects such as scratches, chips, dents, surface rust and rust outs. The technician also welds torn metal, replaces damaged parts, and estimates repairs. A person in this trade should have the desire to work with metal and finishing metals such as paints, solvents, and waxes.

Course Content:

- Vehicle Design & Construction
- Panel Replacement & Alignment, Trim and Hardware
- Metal Finishing
- Body Fillers
- Glass & Hardware
- Structural Component Repair & Damage Analysis
- Structural Straightening
- Corrosion Protection
- Welding
- Cutting Processes
- Surface Preparation
- Refinishing, and Equipment
- Automotive Finishes, Surface Preparation
- Refinishing Equipment and Operations
- Detailing
- Estimating Damage Analysis
- Plastic Repair
- Restraint Systems

Potential State or National Certifications Available at CMTHS:

- NOCTI Collision Repair and Refinishing Technology
- Hazardous Material Storage and Disposal
- S/P2 Safety and Pollution Prevention
- I-CAR Certification(s)
- PPG Online Training - Refinishing Sheet Metal and Finishing Sheet Metal

Articulation Agreement: Autobody/Collision & Repair Technology Technician - CIP Code: 47.0603 See www.patrac.org for program specific articulation agreements.

Related Occupations: Frame Equipment Specialist, Repair Technician, Glass Specialist, Insurance Estimator, Customizing Specialist, Auto Body Technician, Industrial Spray Painter, Sales/Auto Body/Parts, Car Detail Specialist, and Auto Refinisher Technician.

Required Uniform and Materials: Collision Repair printed T-shirt, blue or tan work pants, and leather work boots are required. Charcoal Filter Spray Respirator (see instructor). Uniforms are available at www.cmths.org.

COSMETOLOGY

Course Description: The Cosmetology program prepares individuals to cut, trim, and style scalp, facial, and body hair; apply cosmetic preparations; perform manicures and pedicures; massage the head and extremities and prepare for practice as licensed cosmetologists in specialized or full-service salons. Includes instruction in hair cutting and styling, manicuring, pedicuring, facial treatments, shampooing, chemical applications, esthetics, shop management, sanitation and safety, customer service, and applicable professional and labor laws and regulations.

Course Content: The basic course requires 1250 hours of study and takes three years to complete where students learn the theory of anatomy of the head, face, hands and feet, chemicals, coloring, sterilization, sanitation, and safety precautions in the field. Students are also trained in the art of customer service.

The Cosmetology program teaches the most scientific approach in hair designing, manicuring and esthetics today. Students are trained in specializations such as nail sculpturing, skin care, hair cutting, coloring, styling, permanent waving, and ethnic styling. Students may participate in our internship program, which consists of spending several days a week in our own salon during school hours. Students can demonstrate skills while working towards their goals for licensing requirements in the state of Pennsylvania.

Potential State or National Certifications Available at CMTHS:

- NOCTI Cosmetology/Cosmetologist PA
- Cosmetologist PA License
- Barbicide Certification
- Cosmetology Teacher
- Nail Technician
- Esthetic Certification
- Milady RISE Infection Control Certification
- 650 Hours towards Barber License after completion of PA Cosmetology License

Articulation Agreement: Cosmetology/Cosmetologist - CIP Code: 12.0401 See www.patrac.org for program specific articulation agreements.

Related Occupations: Hairstylist, Esthetician, Manicurist, Cosmetologist, Shampoo Technician, Stylist Assistant, Color Specialist, Make Up Artist, Retail Specialist, Salon Owner, Salon Manager.

Required Uniform and Materials: black professional smock, closed toe shoes with rubber soles. Students will need to order a cosmetology kit – see instructor for details.

CULINARY ARTS

Course Description: This is an instructional program that prepares students for employment related to institutional, commercial, or self-owned food establishments or other food industry occupations. Instruction and specialized learning experiences include theory, laboratory and work experience related to planning, selecting, preparing, and serving of quantity food and food products; nutritive values; use and care of commercial equipment; safety; and sanitation precautions. Instructional skills are provided to individuals desiring to become employed in all areas of the food service industry at entry level.

The Culinary Arts Program offers a cutting-edge curriculum for all students interested in culinary arts, baking, service management and related fields to study in our state-of-the-art kitchen and restaurant. Students have the opportunity to demonstrate skills at our in-house restaurant and catering program while providing services to residents of the local community.

Course Content:

- Safety and Sanitation
- The Food Industry
- Purchasing, Receiving, and Storage
- Cold Food Preparation (Garde Manger)
- Knife Skills
- Food Service Tools and Equipment
- Standardized Recipes and Measurement
- Nutrition
- Breakfast Foods
- Vegetables & Fruits/ Pasta, Grains, and Potatoes
- Seasoning and Flavoring
- Stocks, Soups, and Sauces
- Meats, Poultry, and Seafood
- Baking and Pastry Skills
- Menus
- Back of the House Operations and Front of the House Operations
- Food Service Information Technology
- Hot Foods Preparation

Potential State or National Certifications Available at CMTHS:

- NOCTI Culinary Arts Level 2 Cook
- Heartsaver CPR
- Heartsaver First Aid
- ServSafe Food Handler Certification

Articulation Agreement: Institutional Food Worker - CIP Code: 12.0508 See www.patrac.org for program specific articulation agreements. Related Occupations: Executive Chef, Line Cook, Restaurant Manager/Owner, Banquet Chef, Caterer, Dietician, Television Chef, Food Wholesaler, Food Stylist, Culinary Arts Educator, Server/Hospitality.

Required Uniform and Materials: Black chef coat and pants, apron, hat, and black work shoes. Uniforms are available at www.cmths.org.

EARLY CHILDHOOD EDUCATION

Course Description: This program prepares individuals for a variety of occupations in childcare and guidance often under the supervision of professional personnel in child or day care centers. This program includes instruction in growth and development; nutrition; program planning and management; safety; behavior guidance; play activities; child abuse and neglect; parent, child personal relationships; learning experiences for children; and laws, regulations and policies relating to childcare services.

The Early Childhood Education program is designed for 10th, 11th and 12th grade students who have a sincere desire to teach and care for young children. It prepares students for either an entry-level position in the childcare industry or to pursue a college degree in early childhood education or elementary education. Students observe and interact in a variety of early childhood settings including elementary schools, childcare centers, Head Start programs, and early intervention programs as well as our own on-site preschool, "Little Hands."

Course Content:

- Orientation and Safety
- Professionalism
- Health and Safety
- Learning Environment (Physical Space)
- Child Development (Emotional, Social, Physical, Intellectual, Language)
- Classroom Management and Positive Guidance
- Standards, Curriculum, and Assessment
- Curriculum Development
- Learning Activities and Experiences
- Program Partnerships
- Clinical Experience

Potential State or National Certifications Available at CMTHS:

- Mandated Reporter Training
- Health and Safety Training (Through Better Kid Care)
- First Aid/ CPR
- CDA Ready Certification (see Steps sheet for Explanation)
- FEMA IS:366.A- Planning for the Needs of Children in Disasters

Articulation Agreements: Childcare & Support Services Management CIP Code: 19.0708 See www.patrac.org for program specific articulation agreements.

Related Occupations: Teacher's Assistant, Childcare Assistant, Nanny, Assistant Group Supervisor, Family Home Childcare Provider, Early Childhood Teacher, and Elementary School Teacher.

Required Uniform and Materials: Burgundy smock/jacket that can be ordered at www.cmths.org.

Additional Requirements: Clearances (3), Physical Exam, and 1-Step Mantoux (Tuberculosis) Test

EXERCISE SCIENCES AND REHABILITATION THERAPY

(11th and 12th grade only)

Course Description: The Exercise Sciences and Rehabilitation Therapy program is a 2-year program for 11th and 12th grade students and designed for a number of technical fields related to kinesiology. Students will learn to design safe and effective exercise prescriptions, conduct individual exercise programs, and fitness testing. Students with an eager aptitude for the sciences, specifically Biology, will thrive in this program.

Instruction includes theory and applications related to strength training and high intensity training, weight management, nutrition, resistance training, exercise programming, exercise physiology, mental health and wellness, pathophysiology, athletic training, injury recognition and management, rehabilitation and restorative care, medical terminology.

Students will prepare for employment in a wide variety of settings that includes assisted care living facilities, fitness clubs, hospitals, corporate wellness programs, strength and conditioning, and clinical rehabilitation programs. In addition, the program serves as a strong foundation for students wishing to pursue advanced degrees in the field of exercise science or enter professional disciplines such as physical or occupational therapy. Specific healthcare certifications, and dual-enrollment college credit and clinical opportunities are included in the program.

Course Content:

- Anatomy and Physiology
- First Aid and CPR
- Evaluation and Assessment of Injuries
- Taping and Bracing
- Therapeutic Exercise and Restorative Care
- Nutrition and Weight Management
- Strength and Conditioning
- Medical Terminology and Documentation
- Exercise Physiology
- Potential State or National Certifications Available at CMTHS:
- Personal Training Certification (ACSM)
- CareerSafe OSHA Certification for Healthcare workers
- Emergency Care and Safety Institute (ECSI) Certifications for the following:
 - First Aid
 - Healthcare Provider CPR
 - Sports First Aid and Injury Prevention
 - Standard First Aid, CPR, and AED

Articulation Agreement: Rehabilitation Aide - CIP Code: 51.2604 See www.patrac.org for program specific articulations agreements.

Related Occupations: Physical Therapist, Physical Therapy Assistant, Occupational Therapist, Athletic Trainer, Personal Trainer, Nutritionist, Strength and Conditioning Coach, Speech Language Pathologist, Physical Therapy Aide

Required Uniform and Materials: Exercise Science polo, jacket, athletic sneakers, appropriate athletic pants, watch with a second hand or stopwatch.

Additional Requirements: Background Checks, Physical Exam, and Immunizations.

HEALTHCARE SCIENCES

Course Description: This is a program with a combination of subject matter and experiences designed to prepare individuals for entry level employment in a minimum of three related health occupations under the supervision of a licensed health care professional. Instruction consists of core course content with clinical experiences in one or two health related occupations. The core curriculum consists of planned courses for introduction of health careers, basic anatomy and physiology, medical terminology, legal and ethical aspects of health care and communications, and at least three planned courses for the knowledge and skills for the occupational area such as medical assisting, ward clerk, nursing assisting, etc.

The Healthcare Sciences Program offers a core academic curriculum and skill-based competency tasks linked to careers in the health care industry. This program provides the knowledge base for Health Occupations careers, as well as preparing the student to enter the health care system as a competent assistant to the health professional.

The clinical experience the students receive is an integral part of the program; providing the students with the laboratory setting to perfect their procedures and hands-on experience in local health care agencies as well as helping them to develop communication skills that are essential in today's job market

Course Content:

- Safety, Professionalism, Legal, & Ethical Issues
- Communication Skills
- Infection Control
- Emergency Care and Disaster Preparedness
- Human Needs and Development

- Healthcare Provider Skills
- Nutrition & Hydration
- Structures & Functions of the Human Body
- Basic Diseases
- Death & Dying
- Medical Terminology
- Potential State or National Certifications Available at CMTHS:
- AHA (American Heart Association) Healthcare Provider BLS CPR
- DPW (Department of Public Welfare) Certificate for Patient Care Assistant
- Medical Assisting
- Nurse Assisting and EKG Technician from AMCA (American Medical Certification Association)
- CareerSafe OSHA Certification for Healthcare workers

Articulation Agreement: Health/Medical Assisting Services - CIP Code: 51.0899 See www.patrac.org for program specific articulations agreements.

Related Occupations: Physical Therapist, Radiological technologist, Surgical Technician, Physical Therapy Assistant, Occupational Therapist, Home Health Aide, Certified Nurse Aide, Respiratory Therapist, Pharmacy Technician, Veterinary Assistant, Registered Nurse, Nurse Practitioner, Licensed Practical Nurse, Physician Assistant, Physician.

Required Uniform and Materials: Turquoise scrub top, black scrub pants, white or black leather shoes/sneakers, watch with a second hand.

Additional Requirements: Background Checks, Physical Exam, and Immunizations.

LANDSCAPE DESIGN & CONSTRUCTION

Course Description: This is an instructional program having a combination of organized subject matter and practical experiences that generally prepares individuals to produce, process and market plants, shrubs and trees used principally for ornamental, recreational and aesthetic purposes and to establish, maintain and manage horticultural enterprises. Instruction emphasizes knowledge, understanding and application important to establishing, maintaining and managing horticultural enterprises such as arboriculture, floriculture, greenhouse operation and management, landscaping, nursery operation and management, and turf management.

The Landscape Design & Construction Program offers hands on learning that prepares students in all phases of landscape/hardscape design and management. With an emphasis on residential home installation, students will learn the proper use of hand and power tools, skid loaders, construction materials, measuring and estimating, blueprint and plan reading, and job site safety.

Course Content:

- Safety
- Safe and Proper Plant Healthcare Practices
- Basic Botany
- Horticulture Business Operations
- Soils and Fertilizer
- Sustainable Horticulture
- Horticulture Technology
- History and Current Status of Horticulture
- Plant Identification
- Horticultural Careers, Opportunities, and Pathways

Potential State or National Certifications Available at CMTHS:

- Bobcat Skid-Steer Loader Operator Training Course Certificate
- Applied Horticulture PA
- OSHA Certification - Agriculture
- Pennsylvania Pesticide Applicator Certification
- Articulation Agreement: Applied Horticulture / Horticulture Operations, General - CIP Code: 01.0601. See www.patrac.org for program specific articulations agreements.

Related Occupations: Landscaper, Groundskeeper, Landscape Architect, Supervisor of Landscaping, Soil and Water Conservationist, Nursery Worker, Nursery/Greenhouse Manager and Sales, Independent Contractor, Construction Manager.

Required Uniform and Materials: Dark green CMTHS shirt, optional CMTHS sweatshirt, jeans or work pants, and leather work boots. Uniforms are available at www.cmths.org.

NETWORKING TECHNOLOGY

Course Description: This is an instructional program that focuses on the design, implementation and management of linked systems of computers, peripherals and associated software and prepares individuals with the technical skills required to support networks and network users. This program includes instruction in networks technologies and standards: system design, architecture, operating systems, security, communications protocols, client support, messaging services, network management, troubleshooting and server optimization.

The Networking Technology program at Central Montco Technical High School is intended to meet the needs of the technology industry both now and in the future. With the Internet growing continually, there are many opportunities available to Networking Technology students. With and education in infrastructure-level networking, students are highly sought after by employers.

Course Content:

- Personal and Environmental Safety
- Computer Hardware
- Troubleshooting, Repair, and Maintenance
- Operating Systems and Software
- Network Technologies
- Network Media and Topologies
- Network Devices
- Network Management
- Network Tools and Troubleshooting
- Security Fundamentals
- Communication and Professionalism

Potential State or National Certifications Available at CMTHS:

- NOCTI Computer Systems Networking PA
- TestOut Ethical Hacker Pro, Server Pro 2016, Client Pro, PC Pro, Network Pro, Security Pro, Cyber Defense Pro
- Fortinet Network Security Expert (NSE)
- Cisco CCENT (Certified Cisco Entry Network Technician)
- Cisco CCNA (Certified Cisco Network Associate)
- CompTIA A+ (Prep)
- CompTia Network+ (Prep)
- C-Tech Copper, Fiber and Smart Home- Home Entertainment certifications
- OSHA Certification

Articulation Agreement: Computer Systems Networking & Telecommunications—CIP Code: 11.0901 See www.patrac.org for program specific articulations agreements.

Related Occupations: Desktop Support Specialist, IT Support Specialist/Analyst, Helpdesk Technician, Network Administrator, Security Specialist, IT Systems Administrator, Ethical Hacker, Information Security Analyst, IT Security Consultant, Information Security Manager, Penetration Tester, and Systems Engineer.

Required Uniform and Materials: Students are required to wear a CMTHS black polo shirt with long pants. Uniforms are available at www.cmths.org.

PUBLIC SAFETY

Course Description: This is a program that prepares individuals to perform the duties of police and public security officers, including patrol and investigative activities, traffic control, crowd control and public relations, witness interviewing, evidence collection and management, basic crime prevention methods, weapon and equipment operation and maintenance, report preparation and other routine law enforcement responsibilities.

Course Content:

- Crime Scene Management
- Use of Force
- Criminal Law and Procedures
- Health Issues
- Police Concepts and Skills
- Corrections Concepts and Skills
- Court Systems
- Communications
- Security: National, International, and Local
- Special Populations

Potential State or National Certifications Available at CMTHS:

- NOCTI Criminal Justice
- First Aid
- CPR and AED
- Protective Safety Systems
- Defensive Tactics
- Fire Extinguisher Certificate
- FEMA: Introduction to Incident Command System
- Ladder Safety Training Certification

Articulation Agreement: Criminal Justice / Police Science—CIP Code: 43.0107 See www.patrac.org for program specific articulation agreements.

Related Occupations: Police Officer, Municipal or State Police Officer, Security Officer, Corrections Officer, Waterways Patrol Officer, Game Protector, Safety Supervisor, Code Enforcement Officer, Safety Inspector, Industrial Hygienist, Environmental Protection Officer.

Required Uniform and Materials: Royal collared shirt, Royal blue pocket tee shirt, black dress pants/trousers, plain black belt, black shoes or boots, gray shorts or sweatpants, running shoes, (for physical training). Uniforms are available at www.cmths.org.

TEACHER ACADEMY

(12th grade only)

Course Description: High school seniors aspiring to be educators develop the skills to be 21st century ready in the college preparatory Teacher Academy program. The course consists of 7.5 hours/week divided between classroom instruction and internship experience with certified teachers at all grade levels, which results in approximately 180 hours of instruction and 90 hours of internship experience. The field experiences are with certified teachers at all grade levels. This is a one-year program.

Admission Criteria:

- Must have applied or intend to apply to a two or four-year college with the goal of earning a degree in education
- All required clearances must be attainable
- Must be in good academic standing to graduate
- Must complete the Teacher Academy (CMTHS) application
- Must have a counselor recommendation specifically to enter this program
- Must complete a preliminary interview screening with CMTHS staff

Course Content: The Teacher Academy is a program for high school seniors interested in pursuing a career in the field of education. In addition to earning 2 high school credits for the program, students have the option to potentially enroll in a dual enrollment and earn college credits. The Academy provides an introduction to the knowledge and skills required to work in the teaching profession in the 21st Century. The Teacher Academy program addresses instruction in all subjects on all grade levels with particular attention devoted to:

- History and philosophy of education
- Legal and ethical issues in education
- Effective teachers and classrooms
- Meeting the needs of exceptional learners
- Integration of technology in the classroom
- Student diversity
- Teacher preparation and entering the profession
- Developing a theory of practice

The course consists of 7.5 hours/week divided between classroom instruction and internships with certified, tenured teachers at all grade levels, resulting in approximately 160 hours of instruction and 95 hours of internship (field site) experience. Student internships consist of 30+ hours in PreK-4 classrooms; 30+ hours in grades 4-8; and 30+ hours in a grade of their choice. Instruction is both teacher and student led; active individual and group participation are expected of each student. In addition, several guest speakers from the educational field will present throughout the year. Students will also participate in relevant field trips. As a culminating project, students complete a portfolio based on current college format and participate in an interview conducted by current and former administrators and human resources staff.

Related Occupations: Early Childhood Teacher, Elementary School Teacher, High School Teacher, Math Specialist, Reading Specialist, Paraeducator, School Counselor, School psychologist, Special Education Teacher or Supervisor, School principal or Assistant Principal, Teacher's Assistant.

Required Uniform and Materials: at CMTHS: blue Teacher Academy polo. On internship assignments: professional attire should be worn to all internship assignments. Navy, grey, or black blazer, dress pants, skirts, button down shirts, blouses (no T-shirts), tie (men), dress shoes (no sneakers or open sandals).

VIDEO/SOUND MUSIC PRODUCTION

Course Description: This program prepares individuals to apply knowledge and skills in the field of multimedia technology. Multimedia technology specialists provide services in a variety of areas associated with typography, web and graphic design, video, audio, television production, animation, and photography.

The Video, Sound, and Music Production Program is a hands-on course where students acquire skills in video and audio production through the operation of state-of-the-art digital video and audio studio production equipment.

Students will be able to combine their artistic creativity with technological knowledge to produce original video and audio productions such as newscasts, music videos, short films, music recording projects, and audio / video post-production projects.

In this field students will work in exciting environments and work settings that include television and radio stations, sporting events, concerts, film sets, recording studios, and theaters.

This program prepares students to apply technical knowledge and skills to the production of sound recordings as either finished products or as components of traditional or emerging music productions, film and video productions, live sound productions, broadcasts, video game productions, or mixed media productions.

Course Content:

- Graphic Design
- Media Composition
- Photography
- Web Media
- Video, Cinematography, and Audio Production
- Professional Practices
- Operating sound and mixing boards
- Recording, mixing, and reproducing sound effects, music, and voices
- Synchronize voices and sounds for movies and television programs
- Edit live recordings with industry technology
- Set up, operate, maintain, and repair broadcast gear
- Monitor and adjust equipment to ensure visual quality
- Troubleshoot equipment
- Edit video recordings with industry technology

Potential State or National Certifications Available at CMTHS:

- NOCTI Communication Technologies PA
- OSHA Certification

Articulation Agreement: Communications Technologies/Technicians & Support Services — CIP Code: 10.999 See www.patrac.org for program specific articulation agreements.

Related Occupations: Video Producer, Audio Producer, Broadcast Technician, Sound Engineer, Foley Artist, Recording Engineers, Sound Mixers, Field Technicians, Camera Operators, Cinematographer, Videographer, Sound and Video Editor

Required Uniform and Materials: Button up work shirt. Two terabyte (2TB) External Hard Drive, over-the-ear headphones (no earbuds).

VISUAL COMMUNICATIONS

Course Description: This is a program in the applied visual arts that focuses on the general principles and techniques for effectively communicating ideas and information, and packaging products, in digital and other formats to business and consumer audiences, and that may prepare individuals in any of the applied art media.

Students in the Visual Communications program pursue studies in traditional media such as watercolor, pencil drawing, pen and ink, and air brush with an emphasis on illustration. Work is also done in advanced color theory and design theory.

As reflected in the trend in the graphic design field, there is an ever-increasing emphasis on computer-generated art. Students work with Macintosh computers using such programs as Illustrator, Photoshop, InDesign, and 3D Software.

Course Content:

- Orientation
- Safety
- Drawing and Illustration
- Color Theory and Application
- Digital Imaging
- Design, Layout, and Production
- Typography
- Digital Photography
- Professional Practices

Potential State or National Certifications Available at CMTHS:

- NOCTI Commercial and Advertising Art PA
- OSHA Certification

Articulation Agreement: Commercial & Advertising Art— CIP Code: 50.0402 See www.patrac.org for program specific articulation agreements.

Related Occupations: Digital Designer, Multimedia Designer, Print Designer, App and Digital Platform Designer, Web Design and SECO, Social Media Design, Online Producer, Internet Marketing Consultant, Photography and Video, Traditional Arts, Fine Artist, Illustrator, Fashion Designer.

Required Uniform and Materials: Students are required to purchase a supply kit through CMTHS at an additional cost consisting of sketchbook, pencils, markers, brushes, toolbox, portfolio book, paint trays, 5GB USB flash drive, and black work shirt.

The Norristown Area School District does not discriminate in employment or educational programs, services or activities, based on race, color, national origin, sex, handicap, or age in accordance with State and Federal laws including Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, Title VI of the Civil Rights Act of 1964, the Age Discrimination Act of 1975, and the Americans with Disabilities Act. Inquiries or complaints should be directed to the Director of Human Resources, Norristown Area School District, 401 N. Whitehall Road, Norristown PA 19403, (610) 630-5000.